

TOSHIBA

FILE NO. 020-200517

SERVICE MANUAL

Plasma Color Television

42HP95
50HP95

TABLE OF CONTENTS

SERVICE SAFETY PRECAUTIONS	3
HANDLING THE LCD MODULE	5
SERVICE MODE	7
LAYOUT OF MAJOR BOARDS	12
MECHANICAL DISASSEMBLY	13
EXPLODED VIEW	15
PACKING DISASSEMBLY	17
CHASSIS AND CABINET REPLACEMENT PARTS LIST	18
PC BOARDS TOP & BOTTOM VIEW	25
CIRCUIT BLOCK DIAGRAM	48
APPENDIX:	
SCHEMATIC DIAGRAM	



SERVICE SAFETY PRECAUTIONS

- The caution items shown here describe major safety issues and should always be observed.
- The meanings of the various indications are as follows.

 WARNING	Indicates a hypothetical situation in which service personnel and nearby third parties, or even end users due to a product defect after the service operation is completed, could possibly be in danger of injury or even death in the event of operational error.
 CAUTION	Indicates a hypothetical situation in which service personnel and nearby third parties, or even end users after the service operation is completed, could possibly be in danger of injury, or where there could be physical damage in the event of operational error.

* Physical damage means major damage to a home, furnishings and other possessions.

Examples of marks

 SHOCK HAZARD	The $\triangle$ indicates caution (including danger and warning). The actual meaning of this caution is indicated inside the $\triangle$ or nearby illustrations or text. The example shown to the left indicates the danger of "electrical shock".
 PROHIBIT DISASSEMBLING	The $\otimes$ indicates a forbidden action. The actual meaning of this caution is indicated inside the $\otimes$ or nearby illustrations or text. The example shown to the left indicates that disassembly is forbidden.
 UNPLUG	The $\bullet$ indicates a forced action (an action that must be performed). The actual meaning of this forced action is indicated by $\bullet$ or nearby illustrations or text. The example shown to the left indicates that the power plug must be disconnected.

	 WARNING
 KEEP CHILDREN AWAY	Always advise users to keep children away. There is danger of injury to children from tools, disassembled products, etc.
 UNPLUG	Always disconnect the power plug before starting work whenever power is not required. Failure to disconnect the power plug before starting work can result in electrical shock.
 SHOCK HAZARD	Depending on the model, use an insulation transformer or wear gloves when servicing with the power on, and disconnect the power plug to avoid electrical shock when replacing parts. In some cases, alternating current is also impressed in the chassis, so electrical shock is possible if the chassis is contacted with the power on.
 USE SPECIFIED PARTS	Always use the replacement parts specified for the particular model when making repairs. The parts used in products have the necessary safety characteristics such as inflammability, voltage resistance, etc.; therefore, use only replacement parts that have these same characteristics. Use only the specified parts when the ⚠ mark is included in a circuit diagram or parts list.
 CAUTION FOR WIRING	Parts mounting and routing of the wiring should be the same as that used originally. For safety purposes, insulating materials such as tubing or tape is sometimes used and printed circuit boards are sometimes mounted floating. Also make sure that wiring is routed and clamped to avoid parts that generate heat and which use high voltage. Always follow the original scheme.
 CAUTION FOR ASSEMBLING / WIRING	After a repair has been completed, reassemble all disassembled parts, and route and reconnect the wiring, in accordance with the original scheme. Do not allow internal wiring to be pinched by cabinets, panels, etc. Any error in reassembly or wiring can result in electrical leakage, flame, etc., and may be hazardous.
 CHECK INSULATION RESISTANCE	After completing the work, disconnect the power plug from the outlet, remove the antenna, turn on the power switch. Then, use a 500V insulation resistance meter to check the insulation resistance of the antenna terminal, other metallic parts and between the prongs of the power plug to make sure that the insulation resistance is 1M Ω or more. The set will require inspection and repair if the insulation resistance is below this value.
 PROHIBIT REMODELING	Never remodel the product in any way. Remodeling can result in improper operation, malfunction, or electrical leakage and flame, which may be hazardous

HANDLING THE LCD MODULE

Safety Precautions

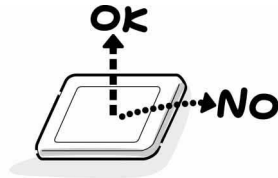
In the event that the screen is damaged or the liquid crystal (fluid) leaks, do not breathe in or drink this fluid. Also, never touch this fluid.

Such actions could cause toxicity or skin irritation. If this fluid should enter the mouth, rinse the mouth thoroughly with water. If the fluid should contact the skin or clothing, wipe off with alcohol, etc., and rinse thoroughly with water. If the fluid should enter the eyes, immediately rinse the eyes thoroughly with running water.

Precautions for Handling the LCD Module

The LCD module can easily be damaged during disassembly or reassembly; therefore, always observe the following precautions when handling the module.

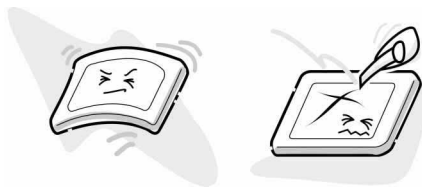
1. When attaching the LCD module to the LCD cover, position it appropriately and fasten at the position where the display can be viewed most conveniently.



2. Carefully align the holes at all four corners of the LCD module with the corresponding holes in the LCD cover and fasten with screws. Do not strongly push on the module because any impact can adversely affect the performance. Also use caution when handling the polarized screen because it can easily be damaged.

CAUTION

The metal edges of the LCD module are sharp, so use caution to avoid injury.



3. If the panel surface becomes soiled, wipe with cotton or a soft cloth. If this does not remove the soiling, breathe on the surface and then wipe again.

If the panel surface is extremely soiled, use a CRT cleaner as a cleaner. Wipe off the panel surface by drop the cleaner on the cloth. Do not drop the cleaner on the panel. Pay attention not to scratch the panel surface.



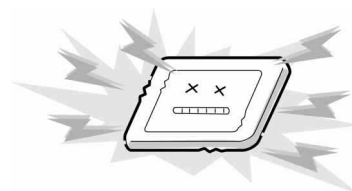
4. Leaving water or other fluids on the panel screen for an extended period of time can result in discoloration or stripes. Immediately remove any type of fluid from the screen.



5. Glass is used in the panel, so do not drop or strike with hard objects. Such actions can damage the panel.



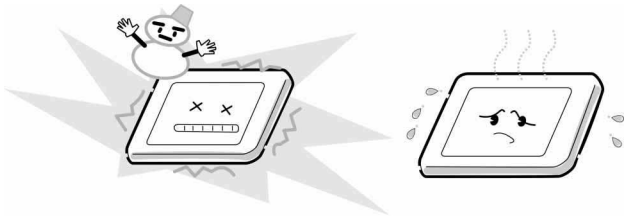
6. CMOS-LSI circuitry is used in the LCD module, so avoid damage due to static electricity. When handling the module, use a wrist ground or anchor ground.



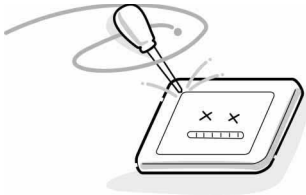
7. Do not expose the LCD module to direct sunlight or strong ultraviolet rays for an extended period of time.



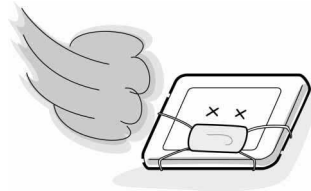
8. Do not store the LCD module below the temperature conditions described in the specifications. Failure to do so could result in freezing of the liquid crystal due to cold air or loss of resilience or other damage.



9. Do not disassemble the LCD module. Such actions could result in improper operation.



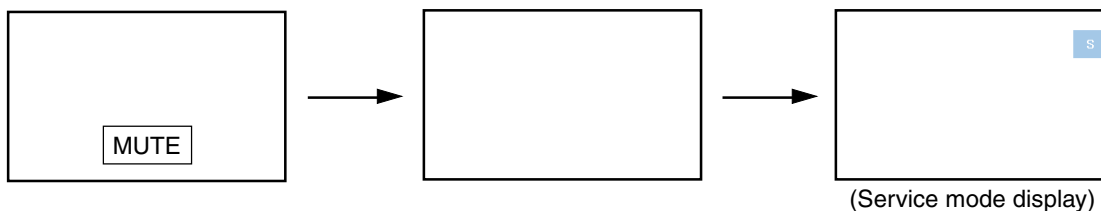
10. When transporting the LCD module, do not use packing containing epoxy resin (amine) or silicon resin (alcohol or oxim). The gas generated by these materials can cause loss of polarity.



SERVICE MODE

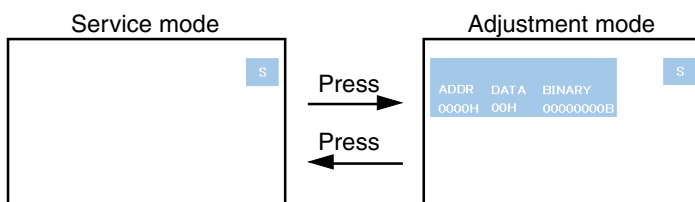
1. ENTERING SERVICE MODE

- 1) Press MUTE button twice on Remote Control.
- 2) Press MUTE button again and keep pressing.
- 3) While pressing the MUTE button, press MENU button on TV set.



2. DISPLAYING THE ADJUSTMENT MENU

- 1) Press MENU button on Remote Control.



3. KEY FUNCTION IN THE SERVICE MODE

The following key entry during display of adjustment menu provides special functions.

Test signal selection :	TV/VIDEO button (on Remote)
Selection of the adjustment items :	Channel ▲ / ▼ (on TV or Remote)
Change of the data value :	Volume ◀ / ▶ (on TV) or ▲ / ▼ (on Remote)
Adjustment menu mode ON/OFF :	MENU button (on Remote)
Initialization of the memory :	CALL + Channel button on TV (▲)
Reset the count of operating protect circuit to "00" :	CALL + Channel button on TV (▼)
"RCUT" selection :	1 button
"GCUT" selection :	2 button
"BCUT" selection :	3 button
"CNTX" selection :	4 button
"COLC" selection :	5 button -----Color thickness correction
"UVTT" selection :	6 button
Automatic A/D Adjustment(PC, Component) :	7 button
Self diagnostic display ON/OFF :	9 button

note: Displayed differently as shown below, depending on the setting of the receiving color system.
COLP (PAL)
COLC (NTSC)
COLS (SECAM)

CAUTION : Never try to perform initialization unless you have changed the memory IC.

4. SELECTING THE ADJUSTING ITEMS

- 1) Every pressing of CHANNEL ▲ button in the service mode changes the adjustment items in the order of table-2.
(▼ button for reverse order)

5. ADJUSTING THE DATA

- 1) Pressing of VOLUME ◀ / ▶ , ▲ / ▼ button will change the value of data in the range from 00H to FFH. The variable range depends on the adjusting item.

6. EXIT FROM SERVICE MODE

- 1) Pressing POWER button to turn off the TV once.

■ INITIALIZATION OF MEMORY DATA

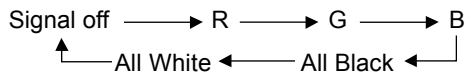
After replacing EEPROM IC, the following initialization is required.

1. Enter the service mode, then select any register item.
2. Press and hold the CALL button on the Remote, then press the CHANNEL ▲ button on the TV. The initialization of EEPROM IC has been completed.
3. Check the picture carefully. If necessary, adjust any adjustment item above.
Perform "Auto tune" on the owner's manual.

CAUTION: Never attempt to initialize the data unless EEPROM IC has been replaced.

7. TEST SIGNAL SELECTION

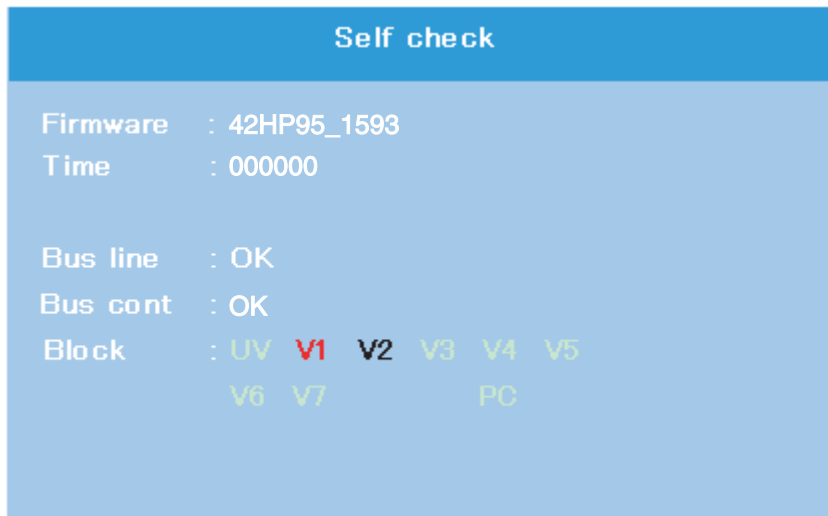
- 1) Every pressing of TV/VIDEO button on the Remote Control changes the built-in test patterns on screen as described below in SERVICE MODE.



Signals	Picture
• Red raster • Green raster • Blue raster • All Black • All White	

8. SELF DIAGNOSTIC FUNCTION

- 1) Press "9" button on Remote Control during display of adjustment menu in the service mode.
The diagnosis will begin to check if interface among IC's is executed properly.
- 2) During diagnosis, the following displays are shown.



- ① Firmware :
Version information of microprocessor
In case of file name : 42HP95 and Version : 1593 indicates[42HP95_1593].
- ② Time : Total hour of turn the TV on. (Unit : H)
- ③ Bus line : --"OK" is normal
"SCL-GND"(Red indication) : SCL-GND short circuit
"SDA-GND"(Red indication) : SDA-GND short circuit
"SCL-SDA"(Red indication) : SCL-SDA short circuit
- ④ Bus cont : --- "OK" is normal.
NG is abnormal(Red indication).
When type name of semiconductor indicates.
- ⑤ Block
UV : TV reception mode
V1 : VIDEO 1 input mode
V2 : VIDEO 2 input mode
V3 : VIDEO 3 input mode
V4 : ColorStream HD 1
V5 : ColorStream HD 2
V6 : HDMI
PC : Personal Computer (PC)

9. VERSION CHECK MODE

- 1) Press "9" button twice on Remote Control during display of adjustment menu in the service mode. The version of main MPU will begin to check.
- 2) During Version Check, the following displays are shown.

Version check		
①	MAIN MPU	: 42HP95_1593(U15)
②	EEPROM	: FF
③	SUB MPU	: 36
④	OPTION	: 74 00 01 25 00 00
⑤	HDMI ID	: 00000155
MN-42		

⑥

- ① MAIN MPU :
Version information of microprocessor
In case of file name : 42HP95, Version 1593 for Code Program Version and (U15) for OSD Version indicates [42HP95_1593(U15)]
- ② EEPROM :
Version information of EEPROM : Display 1 byte data.
- ③ SUB MPU :
Version information of SUB MPU : Display 1 byte data.
- ④ OPTION :
Option information : Display six numbers of 1 byte data.
- ⑤ HDMI ID :
HDMI ID information : Display 4 byte data.
- ⑥ PDP Panel Vender information display
The following Panel Vender and screen size are displayed.

Panel Vender	Screen Size(Inch)
MN	-42
	-50

Example : MN-42 indicates that vender is MN and Screen Size is 42 inch.

10. STATUS CHECK MODE

- 1) Press "9" button thrice on Remote Control during display of adjustment menu in the service mode. The status of this model will begin to check.
- 2) During Status Check, the following displays are shown.

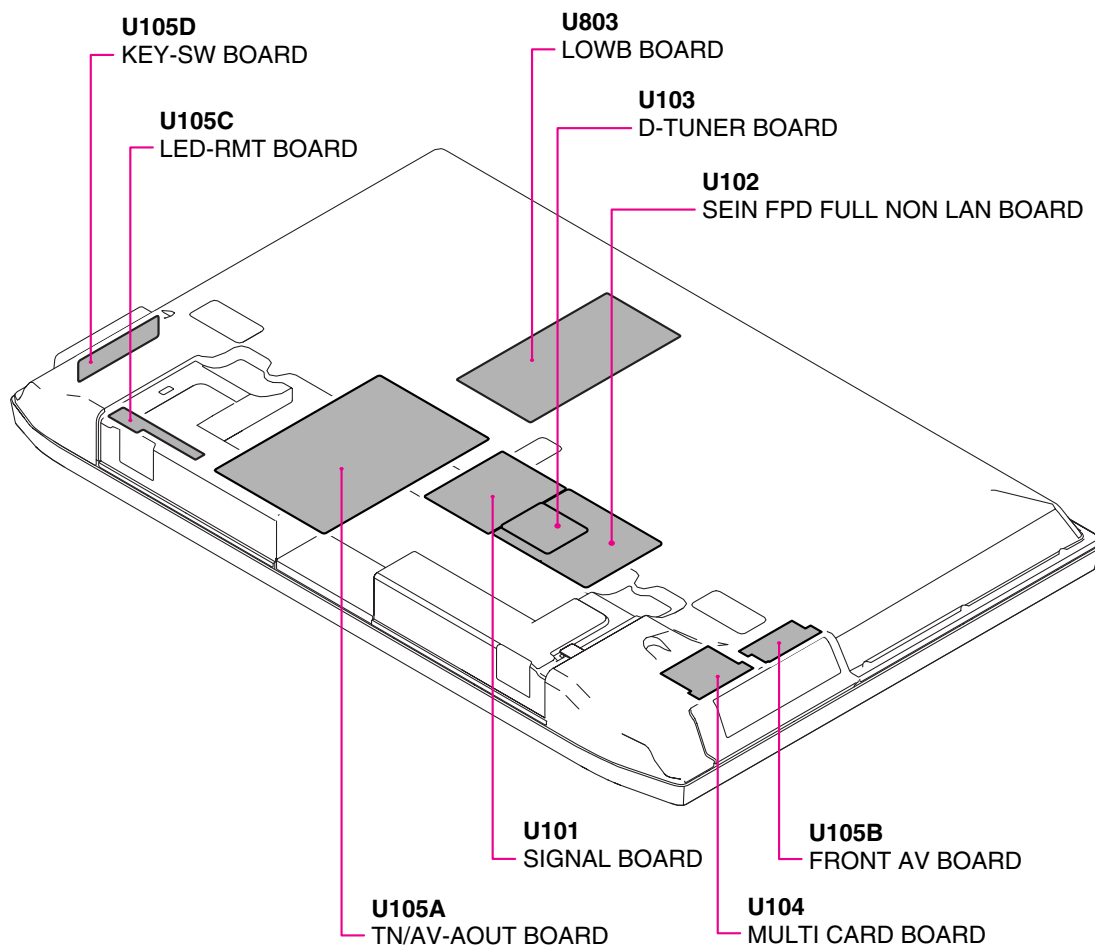
Status check		
①	MAIN	: EXT1
②	MAIN FORMAT	: 480i
③	MAIN PLL	: C6 08 10 CE 05
④	SCREEN SIZE	: NATURAL
⑤	OTHER STATUS	: 0000 0000 0000

- ① MAIN :
Main source information :
Display RF position number (0 - 99) on the main screen, or Input Source (EXT1/2/3/HDMI etc.)
- ② MAIN FORMAT :
Display Video and PC format information
- ③ MAIN PLL :
Main PLL information : Display five numbers of 1 byte data.
- ④ SCREEN SIZE :
Display the screen size as follows.

Theater Wide 1
Theater Wide 2
Theater Wide 3
FULL
NATURAL

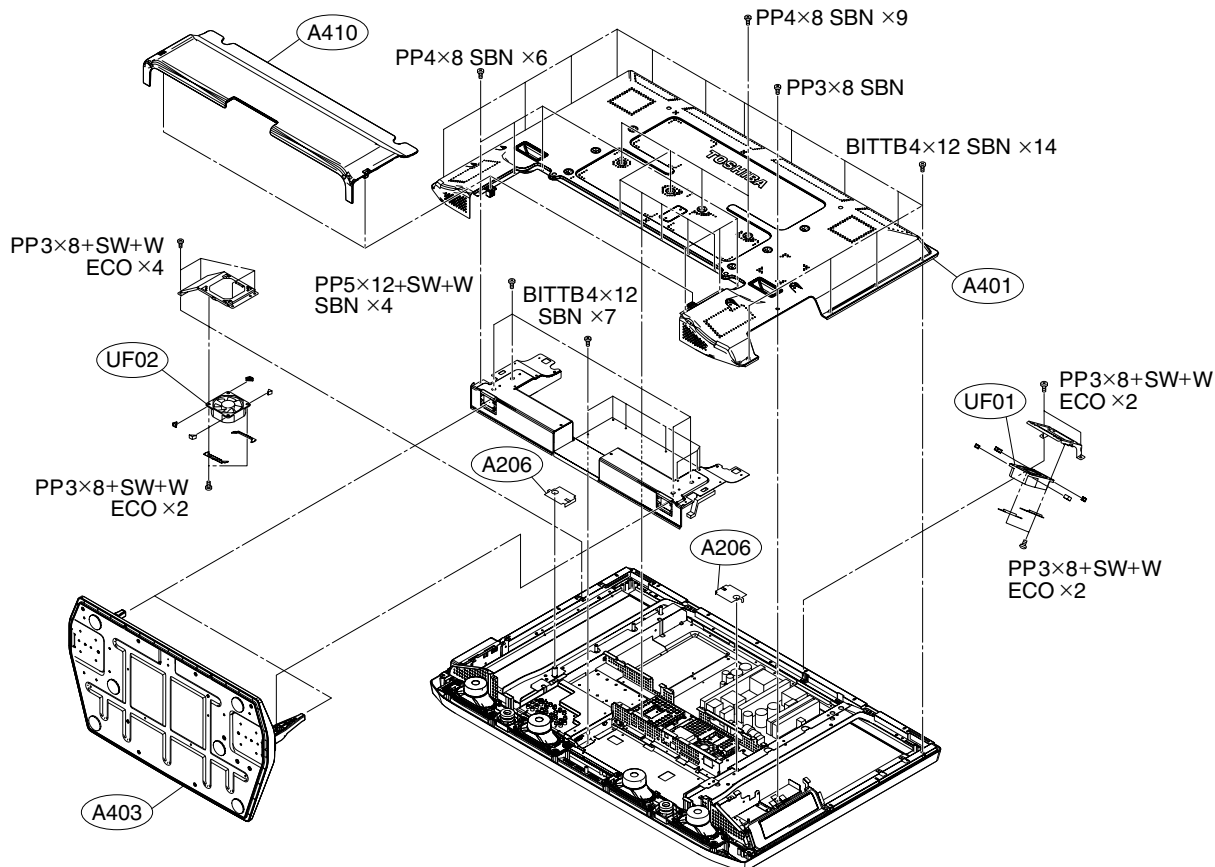
- ⑤ OTHER STATUS :
Other status information : Display three numbers of 2 byte data.

LAYOUT OF MAJOR BOARDS

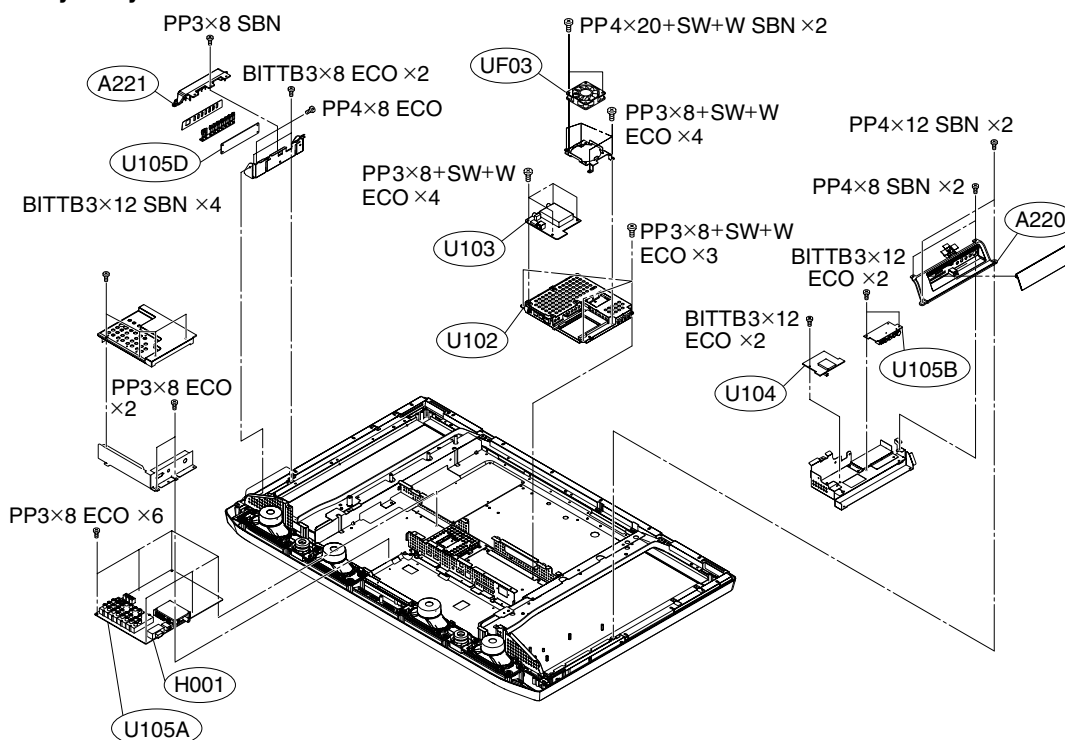


MECHANICAL DISASSEMBLY

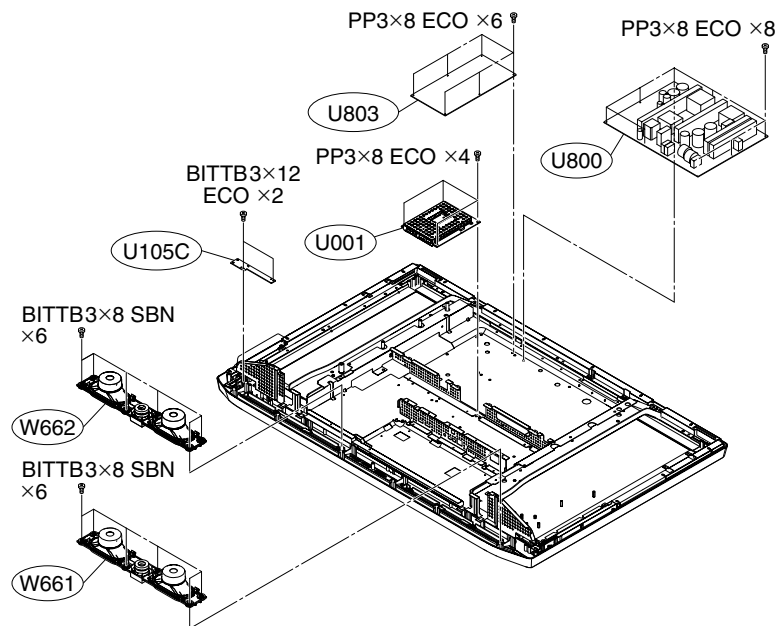
1. Remove the stand (foot) and back cover.



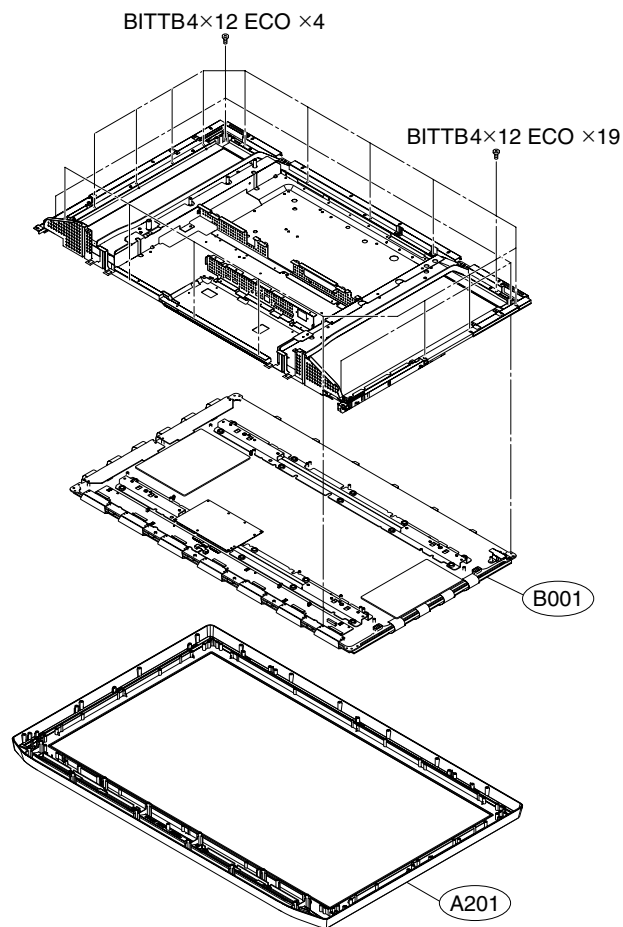
2. Remove the boards (MULTI CARD, TN/AV-AOUT, FRONT AV, KEY-SW, SEIN FPD FULL NON LAN, D-TUNER) and piece key ass'y.



3. Remove the boards (SIGNAL, LED-RMT, LOWB) and speaker.

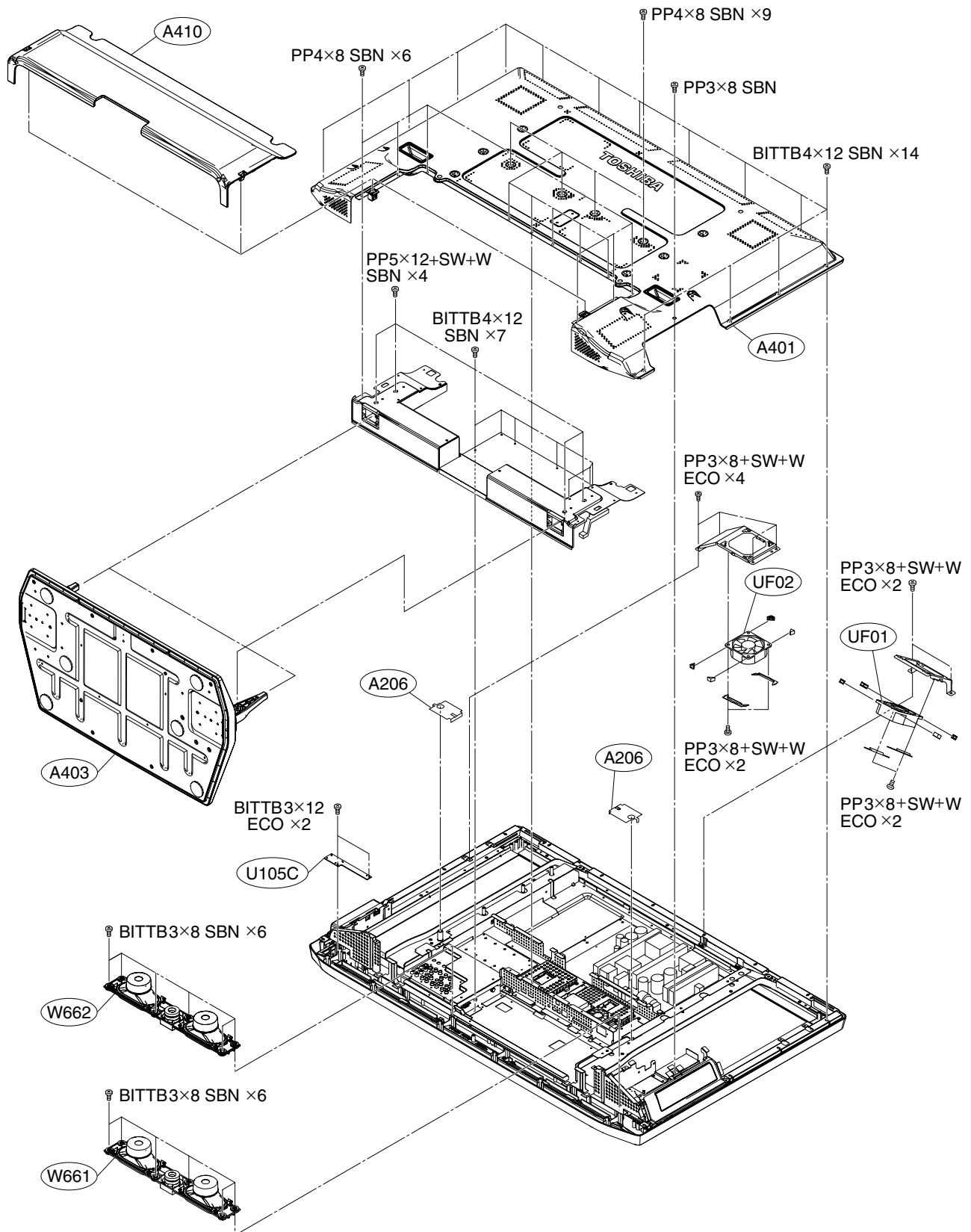


4. Remove the display.

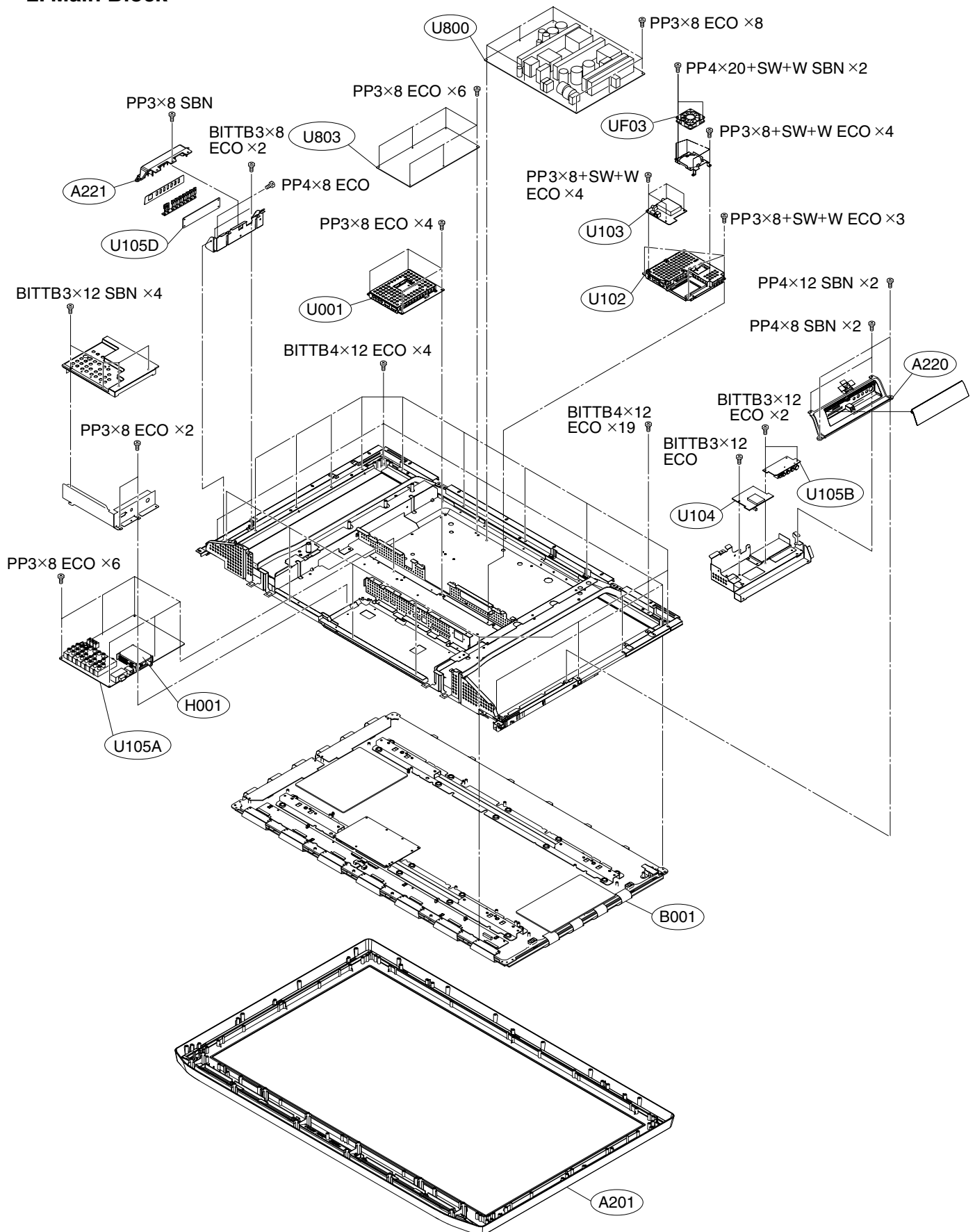


EXPLODED VIEWS

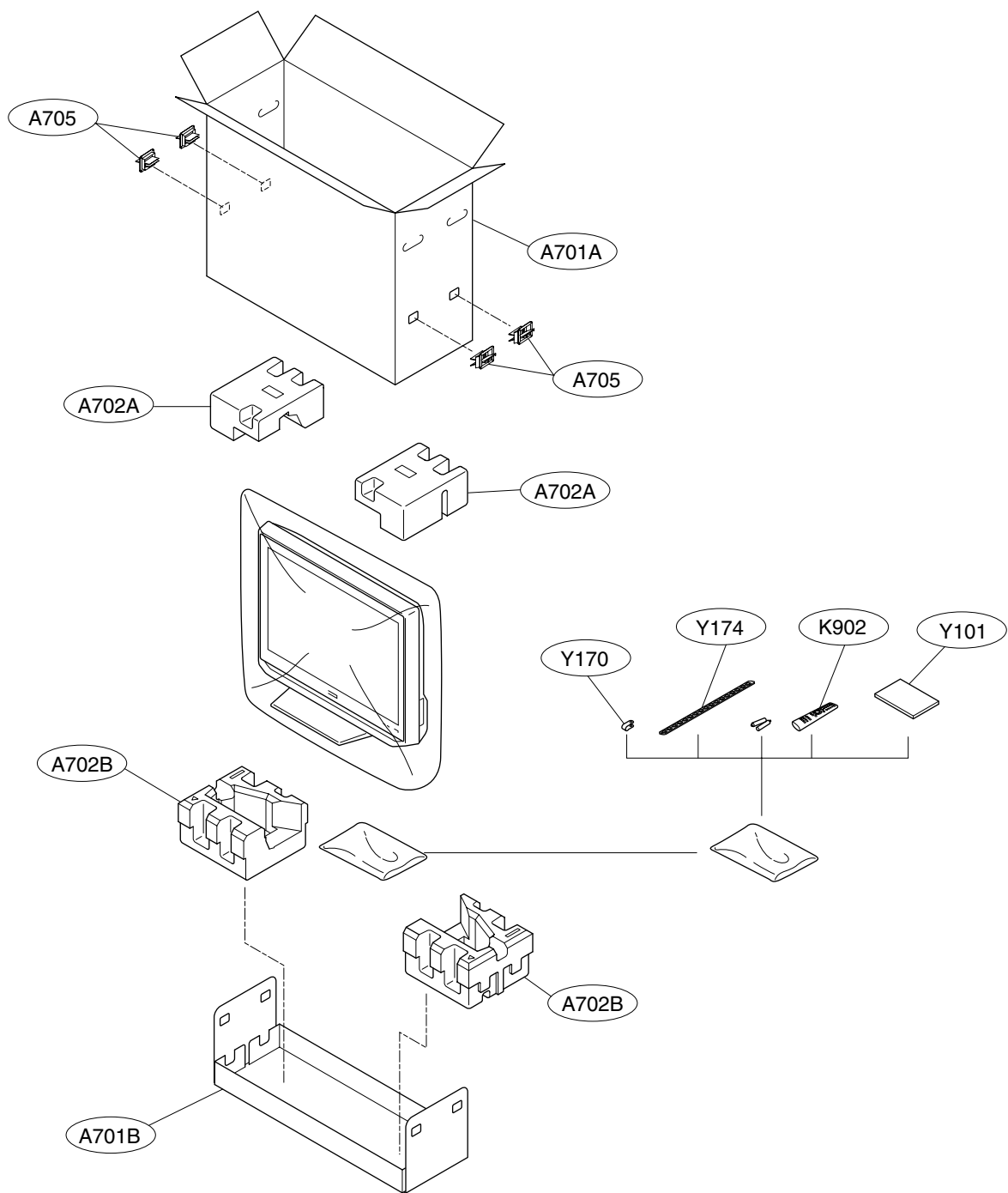
1. Chassis Block



2. Main Block



PACKING DISASSEMBLY



CHASSIS AND CABINET REPLACEMENT PARTS LIST

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "SERVICE SAFETY PRECAUTIONS" ON PAGE 3 OF THIS MANUAL.

CAUTION: The international hazard symbols " " in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the SERVICE SAFETY PRECAUTIONS. Do not degrade the safety of the receiver through improper servicing.

NOTICE:

- The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.
- The PC board assembly with * mark is no longer available after the end of the production.

Model : 42HP95/50HP95

Capacitors CD : Ceramic Disk PF : Plastic Film EL : Electrolytic
Resistors CF : Carbon Film CC : Carbon Composition MF : Metal Film
 OMF : Oxide Metal Film VR : Variable Resistor FR : Fusible Resistor
(All CD and PF capacitors are $\pm 5\%$, 50V and all resistors, $\pm 5\%$, 1/6W unless otherwise noted.)

Location No.	Parts No.	Description
#1:[42HP95]		
#2:[50HP95]		
CAPACITORS		
C102	76073019	ELECTROLYTIC, 10V 470UF M 3A
C103	76109102	CERAMIC CHIP, 50V B 1000PF K
C104	76619143	ELECTROLYTIC CHIP, 50V 4.7UF M
C105	76073019	ELECTROLYTIC, 10V 470UF M 3A
C150	76073041	ELECTROLYTIC, 16V 470UF M 3A
C151	76109102	CERAMIC CHIP, 50V B 1000PF K
C152	76109102	CERAMIC CHIP, 50V B 1000PF K
C161	76109102	CERAMIC CHIP, 50V B 1000PF K
C162	76105101	CERAMIC CHIP, 50V CH 100PF J
C164	76092730	CERAMIC CHIP, 16V B 0.1UF K
C168	76109103	CERAMIC CHIP, 50V B 0.01UF K
C169	76109103	CERAMIC CHIP, 50V B 0.01UF K
C605	76109102	CERAMIC CHIP, 50V B 1000PF K
C606	76109102	CERAMIC CHIP, 50V B 1000PF K
C660	76669479	ELECTROLYTIC, 50V 4.7UF M
C661	76669479	ELECTROLYTIC, 50V 4.7UF M
C662	76109681	CERAMIC CHIP, 50V B 680PF K
C663	76109681	CERAMIC CHIP, 50V B 680PF K
C668	76109102	CERAMIC CHIP, 50V B 1000PF K
C669	76109102	CERAMIC CHIP, 50V B 1000PF K
C670	76669100	ELECTROLYTIC, 50V 10UF M
C671	76669100	ELECTROLYTIC, 50V 10UF M
C673	76619102	ELECTROLYTIC CHIP, 16V 47UF M
C674	76092731	CERAMIC CHIP, 16V B 1UF K
C677	76092731	CERAMIC CHIP, 16V B 1UF K
C678	76285104	CERAMIC CHIP, 50V B 0.1UF K
C679	76285104	CERAMIC CHIP, 50V B 0.1UF K
C680	76668102	ELECTROLYTIC, 35V 1000UF M 3A
C681	76073073	ELECTROLYTIC, 35V 2200UF M 3A
C682	76073073	ELECTROLYTIC, 35V 2200UF M 3A
C684	76109103	CERAMIC CHIP, 50V B 0.01UF K
C685	76092538	CERAMIC CHIP, 10V F 1UF Z
C690	76664102	ELECTROLYTIC, 6.3V 1000UF M 3A
C691	76092463	CERAMIC CHIP, 16V B 0.22UF K
C692	76092463	CERAMIC CHIP, 16V B 0.22UF K
C1801	76285104	CERAMIC CHIP, 50V B 0.1UF K
C1802	76109103	CERAMIC CHIP, 50V B 0.01UF K

Location No.	Parts No.	Description
C1803	76109103	CERAMIC CHIP, 50V B 0.01UF K
C1804	76109103	CERAMIC CHIP, 50V B 0.01UF K
C1805	76109103	CERAMIC CHIP, 50V B 0.01UF K
C1806	76109103	CERAMIC CHIP, 50V B 0.01UF K
C1807	76109103	CERAMIC CHIP, 50V B 0.01UF K
C1808	76109103	CERAMIC CHIP, 50V B 0.01UF K
C1809	76109103	CERAMIC CHIP, 50V B 0.01UF K
C1810	76109103	CERAMIC CHIP, 50V B 0.01UF K
C1811	76109103	CERAMIC CHIP, 50V B 0.01UF K
C1812	76109103	CERAMIC CHIP, 50V B 0.01UF K
CB01	76202221	ELECTROLYTIC, 10V 220UF M 7L 3A
CB02	76202221	ELECTROLYTIC, 10V 220UF M 7L 3A
CB03	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CB04	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CB05	76202221	ELECTROLYTIC, 10V 220UF M 7L 3A
CB38	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CB82	76567474	PLASTIC FILM, 50V 0.47UF J
CB503	76092730	CERAMIC CHIP, 16V B 0.1UF K
CB504	76619100	ELECTROLYTIC CHIP, 16V 10UF M
CB505	76100103	CERAMIC CHIP, 50V F 0.01UF Z
CB506	76092795	CERAMIC CHIP, 6.3V B 2.2UF K
CB507	76092730	CERAMIC CHIP, 16V B 0.1UF K
CB508	76092795	CERAMIC CHIP, 6.3V B 2.2UF K
CB509	76619098	ELECTROLYTIC CHIP, 6.3V 100UF M
CB510	76092795	CERAMIC CHIP, 6.3V B 2.2UF K
CB511	76092730	CERAMIC CHIP, 16V B 0.1UF K
CC01	76092730	CERAMIC CHIP, 16V B 0.1UF K @U104
	76109102	CERAMIC CHIP, 50V B 1000PF K @U105A
CC02	76092730	CERAMIC CHIP, 16V B 0.1UF K @U104
	76109102	CERAMIC CHIP, 50V B 1000PF K @U105A
CC03	76092730	CERAMIC CHIP, 16V B 0.1UF K @U104
	76109102	CERAMIC CHIP, 50V B 1000PF K @U105A
CC04	76619100	ELECTROLYTIC CHIP, 16V 10UF M @U104
	76109102	CERAMIC CHIP, 50V B 1000PF K @U105A
CC05	76092730	CERAMIC CHIP, 16V B 0.1UF K @U104
	76109102	CERAMIC CHIP, 50V B 1000PF K @U105A
CC06	76092730	CERAMIC CHIP, 16V B 0.1UF K @U104
	76109102	CERAMIC CHIP, 50V B 1000PF K @U105A
CC07	76619100	ELECTROLYTIC CHIP, 16V 10UF M @U104
	76109102	CERAMIC CHIP, 50V B 1000PF K @U105A

Location No.	Parts No.	Description
CC08	76092730	CERAMIC CHIP, 16V B 0.1UF K @U104
	76109102	CERAMIC CHIP, 50V B 1000PF K @U105A
CC09	76092730	CERAMIC CHIP, 16V B 0.1UF K
CC10	76092730	CERAMIC CHIP, 16V B 0.1UF K @U104
	76109102	CERAMIC CHIP, 50V B 1000PF K @U105A
CC11	76619100	ELECTROLYTIC CHIP, 16V 10UF M @U104
	76109102	CERAMIC CHIP, 50V B 1000PF K @U105A
CC12	76092538	CERAMIC CHIP, 10V F 1UF Z @U104
	76109102	CERAMIC CHIP, 50V B 1000PF K @U105A
CC13	76092730	CERAMIC CHIP, 16V B 0.1UF K @U104
	76109102	CERAMIC CHIP, 50V B 1000PF K @U105A
CC14	76092730	CERAMIC CHIP, 16V B 0.1UF K @U104
	76109102	CERAMIC CHIP, 50V B 1000PF K @U105A
CC15	76619100	ELECTROLYTIC CHIP, 16V 10UF M @U104
	76109102	CERAMIC CHIP, 50V B 1000PF K @U105A
CC16	76092730	CERAMIC CHIP, 16V B 0.1UF K
CC17	76619100	ELECTROLYTIC CHIP, 16V 10UF M
CC18	76092730	CERAMIC CHIP, 16V B 0.1UF K @U104
	76109102	CERAMIC CHIP, 50V B 1000PF K @U105A
CC19	76092730	CERAMIC CHIP, 16V B 0.1UF K @U104
	76109102	CERAMIC CHIP, 50V B 1000PF K @U105A
CC20	76619100	ELECTROLYTIC CHIP, 16V 10UF M
CC21	76092730	CERAMIC CHIP, 16V B 0.1UF K
CC22	76092538	CERAMIC CHIP, 10V F 1UF Z
CC24	76092538	CERAMIC CHIP, 10V F 1UF Z
CC25	76092538	CERAMIC CHIP, 10V F 1UF Z
CC26	76092730	CERAMIC CHIP, 16V B 0.1UF K
CC27	76092730	CERAMIC CHIP, 16V B 0.1UF K
CC28	76619102	ELECTROLYTIC CHIP, 16V 47UF M
CC30	76619100	ELECTROLYTIC CHIP, 16V 10UF M
CC31	76092730	CERAMIC CHIP, 16V B 0.1UF K
CC32	76619100	ELECTROLYTIC CHIP, 16V 10UF M
CC33	76092730	CERAMIC CHIP, 16V B 0.1UF K
CC34	76092730	CERAMIC CHIP, 16V B 0.1UF K
CC36	76619100	ELECTROLYTIC CHIP, 16V 10UF M
CC40	76092538	CERAMIC CHIP, 10V F 1UF Z @U104
	76109102	CERAMIC CHIP, 50V B 1000PF K @U105A
CC41	76092730	CERAMIC CHIP, 16V B 0.1UF K @U104
	76109102	CERAMIC CHIP, 50V B 1000PF K @U105A
CC42	76109103	CERAMIC CHIP, 50V B 0.01UF K
CE03	76539104	PLASTIC FILM, 50V 0.1UF J
CE05	76073090	ELECTROLYTIC, 50V 100UF M 3A
CE08	76073090	ELECTROLYTIC, 50V 100UF M 3A
CE10	76666470	ELECTORLYTIC, 16V 47UF M 3A
CE11	76539474	PLASTIC FILM, 50V 0.47UF J
CE12	76666470	ELECTORLYTIC, 16V 47UF M 3A
CE25	76668470	ELECTROLYTIC, 35V 47UF M 3A
CE30	76073189	ELECTROLYTIC, 35V 1000UF M
CE31	76073186	ELECTROLYTIC, 35V 470UF M
CE32	76073128	ELECTROLYTIC, 6.3V 1000UF M
CE60	76073186	ELECTROLYTIC, 35V 470UF M
CE61	76617028	ELECTROLYTIC, 16V 1200UF M
CE62	76073020	ELECTROLYTIC, 10V 1000UF M 3A
CE63	76539104	PLASTIC FILM, 50V 0.1UF J
CE64	76539104	PLASTIC FILM, 50V 0.1UF J
CE65	76666470	ELECTORLYTIC, 16V 47UF M 3A
CE66	76539474	PLASTIC FILM, 50V 0.47UF J
CE67	76666470	ELECTORLYTIC, 16V 47UF M 3A
CE70	76073189	ELECTROLYTIC, 35V 1000UF M
CE71	76073186	ELECTROLYTIC, 35V 470UF M
CE72	76073128	ELECTROLYTIC, 6.3V 1000UF M
CE85	76666470	ELECTORLYTIC, 16V 47UF M 3A
CE86 #2	76666470	ELECTORLYTIC, 16V 47UF M 3A
CE87 #2	76073090	ELECTROLYTIC, 50V 100UF M 3A
CH01	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CH02	76619100	ELECTROLYTIC CHIP, 16V 10UF M

Location No.	Parts No.	Description
CS10	76092609	CERAMIC CHIP, 10V B 4,7UF K
CS11	76092609	CERAMIC CHIP, 10V B 4,7UF K
CS12	76109473	CERAMIC CHIP, 25V B 0.047UF K
CS15	76092609	CERAMIC CHIP, 10V B 4,7UF K
CS16	76092609	CERAMIC CHIP, 10V B 4,7UF K
CS36	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS37	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS40	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS41	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS42	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS43	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS44	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS45	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS46	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS47	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS48	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS49	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS50	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS51	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS54	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS55	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS56	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS57	76619102	ELECTROLYTIC CHIP, 16V 47UF M
CS64	76619101	ELECTROLYTIC CHIP, 16V 22UF M
CS82	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS85	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS86	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS501	76619100	ELECTROLYTIC CHIP, 16V 10UF M
CS502	76092726	CERAMIC CHIP, 10V B 2.2UF K
CS503	76619100	ELECTROLYTIC CHIP, 16V 10UF M
CS504	76105470	CERAMIC CHIP, 50V CH 47PF J
CS505	76105470	CERAMIC CHIP, 50V CH 47PF J
CV21	76619102	ELECTROLYTIC CHIP, 16V 47UF M
CV24	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CV27	76619100	ELECTROLYTIC CHIP, 16V 10UF M
CV28	76619100	ELECTROLYTIC CHIP, 16V 10UF M
CV31	76105220	CERAMIC CHIP, 50V CH 22PF J
CV33	76092730	CERAMIC CHIP, 16V B 0.1UF K
CV34	76105270	CERAMIC CHIP, 50V CH 27PF J
CV35	76105330	CERAMIC CHIP, 50V CH 33PF J
CV38	76109102	CERAMIC CHIP, 50V B 1000PF K
CV39	76109102	CERAMIC CHIP, 50V B 1000PF K
CV67	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CV68	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CV69	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CV72	76794471	ELECTROLYTIC, 16V 470UF M
CV74	76666101	ELECTROLYTIC, 16V 100UF M 3A
CV76	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CV121	76109103	CERAMIC CHIP, 50V B 0.01UF K
CV122	76105101	CERAMIC CHIP, 50V CH 100PF J
CV267	76619100	ELECTROLYTIC CHIP, 16V 10UF M
CV270	76619100	ELECTROLYTIC CHIP, 16V 10UF M
CV273	76619100	ELECTROLYTIC CHIP, 16V 10UF M
CV282	76619100	ELECTROLYTIC CHIP, 16V 10UF M
CV286	76109103	CERAMIC CHIP, 50V B 0.01UF K
CV287	76619102	ELECTROLYTIC CHIP, 16V 47UF M
CV289	76619100	ELECTROLYTIC CHIP, 16V 10UF M
CV291	76109103	CERAMIC CHIP, 50V B 0.01UF K
CV292	76109103	CERAMIC CHIP, 50V B 0.01UF K
CV293	76619100	ELECTROLYTIC CHIP, 16V 10UF M
CV294	76109103	CERAMIC CHIP, 50V B 0.01UF K
CY650	76105101	CERAMIC CHIP, 50V CH 100PF J

Location No.	Parts No.	Description
RESISTORS		
R103	76011101	CHIP, 1/20W 100 OHM J
R104	76011103	CHIP, 1/20W 10K OHM J
R105	76011273	CHIP, 1/20W 27K OHM J
R107	76000445	CHIP JUMPER, 1608TYPE
R108	76000445	CHIP JUMPER, 1608TYPE
R110	76011682	CHIP, 1/20W 6.8K OHM J
R114	76000445	CHIP JUMPER, 1608TYPE
R161	76011102	CHIP, 1/20W 1K OHM J
R165	76011392	CHIP, 1/20W 3.9K OHM J
R166	76011472	CHIP, 1/20W 4.7K OHM J
R167	76011101	CHIP, 1/20W 100 OHM J
R168	76011101	CHIP, 1/20W 100 OHM J
R264	76871750	CHIP, 1/8W 75 OHM J
R265	76871750	CHIP, 1/8W 75 OHM J
R266	76871750	CHIP, 1/8W 75 OHM J
R286	76871750	CHIP, 1/8W 75 OHM J
R287	76871750	CHIP, 1/8W 75 OHM J
R288	76871750	CHIP, 1/8W 75 OHM J
R664	76011104	CHIP, 1/20W 100K OHM J
R665	76011104	CHIP, 1/20W 100K OHM J
R670	76011472	CHIP, 1/20W 4.7K OHM J
R671	76011472	CHIP, 1/20W 4.7K OHM J
R672	76011182	CHIP, 1/20W 1.8K OHM J
R673	76011182	CHIP, 1/20W 1.8K OHM J
R678	76871229	CHIP, 1/8W 2.2 OHM J
R679	76871229	CHIP, 1/8W 2.2 OHM J
R680	76011473	CHIP, 1/20W 47K OHM J
R681	76011473	CHIP, 1/20W 47K OHM J
R683	76011103	CHIP, 1/20W 10K OHM J
R684	76011104	CHIP, 1/20W 100K OHM J
R685	76011222	CHIP, 1/20W 2.2K OHM J
R686	76011102	CHIP, 1/20W 1K OHM J
R687	76871102	CHIP, 1/8W 1K OHM J
R688	76871102	CHIP, 1/8W 1K OHM J
R689	76871102	CHIP, 1/8W 1K OHM J
R690	76011473	CHIP, 1/20W 47K OHM J
R691	76011103	CHIP, 1/20W 10K OHM J
R692	76011223	CHIP, 1/20W 22K OHM J
R693	76871102	CHIP, 1/8W 1K OHM J
R694	76871102	CHIP, 1/8W 1K OHM J
R695	76871102	CHIP, 1/8W 1K OHM J
R4100	76011102	CHIP, 1/20W 1K OHM J
R4101	76011681	CHIP, 1/20W 680 OHM J
R4102	76011471	CHIP, 1/20W 470 OHM J
R4103	76011102	CHIP, 1/20W 1K OHM J
R4104	76011152	CHIP, 1/20W 1.5K OHM J
R4105	76011102	CHIP, 1/20W 1K OHM J
R4106	76011681	CHIP, 1/20W 680 OHM J
R4107	76011471	CHIP, 1/20W 470 OHM J
R4108	76011102	CHIP, 1/20W 1K OHM J
R4109	76011152	CHIP, 1/20W 1.5K OHM J
R4120	76000445	CHIP JUMPER, 1608TYPE
R4122	76000445	CHIP JUMPER, 1608TYPE
R6601	76011223	CHIP, 1/20W 22K OHM J
R6602	76011472	CHIP, 1/20W 4.7K OHM J
R6603	76011223	CHIP, 1/20W 22K OHM J
R6604	76011102	CHIP, 1/20W 1K OHM J
R6605	76011103	CHIP, 1/20W 10K OHM J
R6606	76011104	CHIP, 1/20W 100K OHM J
RA71	76011683	CHIP, 1/20W 68K OHM J
RA72	76011223	CHIP, 1/20W 22K OHM J
RA73	76011103	CHIP, 1/20W 10K OHM J
RA74	76000445	CHIP JUMPER, 1608TYPE
RA76	76011223	CHIP, 1/20W 22K OHM J
RA77	76011103	CHIP, 1/20W 10K OHM J

Location No.	Parts No.	Description
RA78	76000445	CHIP JUMPER, 1608TYPE
RA79	76000445	CHIP JUMPER, 1608TYPE
RB08	76011470	CHIP, 1/20W 47 OHM J
RB09	76011470	CHIP, 1/20W 47 OHM J
RB10	76011331	CHIP, 1/20W 330 OHM J
RB15	76011471	CHIP, 1/20W 470 OHM J
RB24	76000445	CHIP JUMPER, 1608TYPE
RB81	76011473	CHIP, 1/20W 47K OHM J
RB502	76011332	CHIP, 1/20W 3.3K OHM J
RB503	76011332	CHIP, 1/20W 3.3K OHM J
RB504	76011104	CHIP, 1/20W 100K OHM J
RB505	76011101	CHIP, 1/20W 100 OHM J
RB506	76872750	CHIP, 1/16W 75 OHM J
RB507	76872820	CHIP, 1/16W 82 OHM J
RB510	76011102	CHIP, 1/20W 1K OHM J
RB513	76011102	CHIP, 1/20W 1K OHM J
RB514	76011473	CHIP, 1/20W 47K OHM J
RB515	76011473	CHIP, 1/20W 47K OHM J
RB516	76011472	CHIP, 1/20W 4.7K OHM J
RB517	76011472	CHIP, 1/20W 4.7K OHM J
RB518	76011101	CHIP, 1/20W 100 OHM J
RB519	76011472	CHIP, 1/20W 4.7K OHM J
RB520	76011472	CHIP, 1/20W 4.7K OHM J
RB521	76011472	CHIP, 1/20W 4.7K OHM J
RB522	76011472	CHIP, 1/20W 4.7K OHM J
RB523	76011472	CHIP, 1/20W 4.7K OHM J
RB524	76011472	CHIP, 1/20W 4.7K OHM J
RB525	76011101	CHIP, 1/20W 100 OHM J
RB526	76011103	CHIP, 1/20W 10K OHM J
RB527	76011103	CHIP, 1/20W 10K OHM J
RB528	76011472	CHIP, 1/20W 4.7K OHM J
RB529	76011472	CHIP, 1/20W 4.7K OHM J
RB554	76011471	CHIP, 1/20W 470 OHM J
RB555	76011103	CHIP, 1/20W 10K OHM J
RB556	76011101	CHIP, 1/20W 100 OHM J
RB557	76011103	CHIP, 1/20W 10K OHM J
RB562	76011104	CHIP, 1/20W 100K OHM J
RB563	76872750	CHIP, 1/16W 75 OHM J
RB564	76872820	CHIP, 1/16W 82 OHM J
RB565	76011101	CHIP, 1/20W 100 OHM J
RB574	76011101	CHIP, 1/20W 100 OHM J
RC01	76011223	CHIP, 1/20W 22K OHM J @U104
	76011101	CHIP, 1/20W 100 OHM J @U105A
RC02	76011220	CHIP, 1/20W 22 OHM J @U104
	76011101	CHIP, 1/20W 100 OHM J @U105A
RC03	76011220	CHIP, 1/20W 22 OHM J @U104
	76011101	CHIP, 1/20W 100 OHM J @U105A
RC04	76011220	CHIP, 1/20W 22 OHM J @U104
	76011101	CHIP, 1/20W 100 OHM J @U105A
RC05	76011220	CHIP, 1/20W 22 OHM J @U104
	76011101	CHIP, 1/20W 100 OHM J @U105A
RC06	76011220	CHIP, 1/20W 22 OHM J @U104
	76011101	CHIP, 1/20W 100 OHM J @U105A
RC07	76011220	CHIP, 1/20W 22 OHM J @U104
	76011101	CHIP, 1/20W 100 OHM J @U105A
RC08	76011220	CHIP, 1/20W 22 OHM J @U104
	76011101	CHIP, 1/20W 100 OHM J @U105A
RC09	76011270	CHIP, 1/20W 27 OHM J @U104
	76011101	CHIP, 1/20W 100 OHM J @U105A
RC10	76011270	CHIP, 1/20W 27 OHM J @U104
	76011101	CHIP, 1/20W 100 OHM J @U105A
RC11	76011334	CHIP, 1/20W 330K OHM J @U104
	76011101	CHIP, 1/20W 100 OHM J @U105A
RC12	76011103	CHIP, 1/20W 10K OHM J @U104
	76011101	CHIP, 1/20W 100 OHM J @U105A
RC13	76000824	CHIP JUMPER, 2125TYPE

Location No.	Parts No.	Description
RC14	76000824	CHIP JUMPER, 2125TYPE
RC15	76000824	CHIP JUMPER, 2125TYPE
RC16	76011103	CHIP, 1/20W 10K OHM J
RC17	76000824	CHIP JUMPER, 2125TYPE
RC18	76000824	CHIP JUMPER, 2125TYPE
RC19	76000824	CHIP JUMPER, 2125TYPE
RC20	76000824	CHIP JUMPER, 2125TYPE
RC21	76011103	CHIP, 1/20W 10K OHM J
RC22	76011103	CHIP, 1/20W 10K OHM J
RC23	76011103	CHIP, 1/20W 10K OHM J
RC24	76011103	CHIP, 1/20W 10K OHM J
RC25	76011103	CHIP, 1/20W 10K OHM J
RC26	76011103	CHIP, 1/20W 10K OHM J
RC27	76011103	CHIP, 1/20W 10K OHM J
RC28	76011103	CHIP, 1/20W 10K OHM J
RC32	76011331	CHIP, 1/20W 330 OHM J
RC33	76011103	CHIP, 1/20W 10K OHM J
RC34	76011331	CHIP, 1/20W 330 OHM J
RC35	76011103	CHIP, 1/20W 10K OHM J
RC36	76011331	CHIP, 1/20W 330 OHM J
RC37	76011103	CHIP, 1/20W 10K OHM J
RC38	76011331	CHIP, 1/20W 330 OHM J
RC39	76011103	CHIP, 1/20W 10K OHM J
RC40	76011102	CHIP, 1/20W 1K OHM J @U104
	76011101	CHIP, 1/20W 100 OHM J @U105A
RC41	76011105	CHIP, 1/20W 1M OHM J @U104
	76011101	CHIP, 1/20W 100 OHM J @U105A
RC49	76011103	CHIP, 1/20W 10K OHM J
RC50	76011123	CHIP, 1/20W 12K OHM J
RC51	76011103	CHIP, 1/20W 10K OHM J
RC52	76011103	CHIP, 1/20W 10K OHM J
RC53	76011103	CHIP, 1/20W 10K OHM J
RC54	76011220	CHIP, 1/20W 22 OHM J
RC55	76011103	CHIP, 1/20W 10K OHM J
RC61	76011564	CHIP, 1/20W 560K OHM J
RC62	76011103	CHIP, 1/20W 10K OHM J
RE01	76366153	CARBON FILM, 1/6W 15K OHM J
RE02	76366473	CARBON FILM, 1/6W 47K OHM J
RE03	76366153	CARBON FILM, 1/6W 15K OHM J
RE04	76366222	CARBON FILM, 1/6W 2.2K OHM J
RE05	76366392	CARBON FILM, 1/6W 3.9K OHM J
RE06	76366473	CARBON FILM, 1/6W 47K OHM J
RE07	76366392	CARBON FILM, 1/6W 3.9K OHM J
RE08	76366472	CARBON FILM, 1/6W 4.7K OHM J
RE09	76366473	CARBON FILM, 1/6W 47K OHM J
RE10	76367180	CARBON FILM, 1/6W 18 OHM G
RE11	76367222	CARBON FILM, 1/6W 2.2K OHM G
RE12	76366472	CARBON FILM, 1/6W 4.7K OHM J
RE13	76366102	CARBON FILM, 1/6W 1K OHM J
RE14	#2 76366392	CARBON FILM, 1/6W 3.9K OHM J
RE15	76366182	CARBON FILM, 1/6W 1.8K OHM J
RE16	76366473	CARBON FILM, 1/6W 47K OHM J
RE17	76366103	CARBON FILM, 1/6W 10K OHM J
RE18	76366153	CARBON FILM, 1/6W 15K OHM J
RE19	76366473	CARBON FILM, 1/6W 47K OHM J
RE26	76366473	CARBON FILM, 1/6W 47K OHM J
RE27	76552102	OXIDE METAL FILM, 1/2W 1K OHM J
RE28	76552332	OXIDE METAL FILM, 1/2W 3.3K OHM J
RE29	76366103	CARBON FILM, 1/6W 10K OHM J
RE30	76366154	CARBON FILM, 1/6W 150K OHM J
RE33	76366102	CARBON FILM, 1/6W 1K OHM J
RE34	76366102	CARBON FILM, 1/6W 1K OHM J
RE60	76000142	METAL FILM, 1/4W 240 OHM F
RE61	76000360	METAL FILM, 1/4W 1.2K OHM F
RE63	76366102	CARBON FILM, 1/6W 1K OHM J
RE65	76367620	CARBON FILM 1/6W 62 G

Location No.	Parts No.	Description
RE66	76367222	CARBON FILM, 1/6W 2.2K OHM G
RE70	76366184	CARBON FILM, 1/6W 180K OHM J
RE73	76366102	CARBON FILM, 1/6W 1K OHM J
RE74	76366102	CARBON FILM, 1/6W 1K OHM J
RE85	76552222	OXIDE METAL FILM, 1/2W 2.2K OHM J
RE86	76366103	CARBON FILM, 1/6W 10K OHM J
RE87	#2 76552222	OXIDE METAL FILM, 1/2W 2.2K OHM J
RH04	#1 76000445	CHIP JUMPER, 1608TYPE
RH05	#1 76000445	CHIP JUMPER, 1608TYPE
RH06	76011101	CHIP, 1/20W 100 OHM J
RR01	76871750	CHIP, 1/8W 75 OHM J
RR02	76871750	CHIP, 1/8W 75 OHM J
RR03	76871750	CHIP, 1/8W 75 OHM J
RR04	76011330	CHIP, 1/20W 33 OHM J
RR05	76011330	CHIP, 1/20W 33 OHM J
RR06	76011330	CHIP, 1/20W 33 OHM J
RS16	76011473	CHIP, 1/20W 47K OHM J
RS17	76011473	CHIP, 1/20W 47K OHM J
RS18	76011103	CHIP, 1/20W 10K OHM J
RS19	76011104	CHIP, 1/20W 100K OHM J
RS20	76011104	CHIP, 1/20W 100K OHM J
RS25	76011101	CHIP, 1/20W 100 OHM J
RS26	76011101	CHIP, 1/20W 100 OHM J
RS27	76011222	CHIP, 1/20W 2.2K OHM J
RS28	76011222	CHIP, 1/20W 2.2K OHM J
RS29	76011102	CHIP, 1/20W 1K OHM J
RS30	76011102	CHIP, 1/20W 1K OHM J
RS31	76011104	CHIP, 1/20W 100K OHM J
RS32	76011104	CHIP, 1/20W 100K OHM J
RS33	76011473	CHIP, 1/20W 47K OHM J
RS34	76011473	CHIP, 1/20W 47K OHM J
RS35	76011104	CHIP, 1/20W 100K OHM J
RS36	76011472	CHIP, 1/20W 4.7K OHM J
RS37	76011472	CHIP, 1/20W 4.7K OHM J
RS40	76011472	CHIP, 1/20W 4.7K OHM J
RS41	76011472	CHIP, 1/20W 4.7K OHM J
RS42	76011472	CHIP, 1/20W 4.7K OHM J
RS43	76011472	CHIP, 1/20W 4.7K OHM J
RS44	76011472	CHIP, 1/20W 4.7K OHM J
RS45	76011472	CHIP, 1/20W 4.7K OHM J
RS46	76011472	CHIP, 1/20W 4.7K OHM J
RS47	76011472	CHIP, 1/20W 4.7K OHM J
RS48	76011472	CHIP, 1/20W 4.7K OHM J
RS49	76011472	CHIP, 1/20W 4.7K OHM J
RS50	76011472	CHIP, 1/20W 4.7K OHM J
RS51	76011472	CHIP, 1/20W 4.7K OHM J
RS54	76011682	CHIP, 1/20W 6.8K OHM J
RS55	76011472	CHIP, 1/20W 4.7K OHM J
RS56	76011472	CHIP, 1/20W 4.7K OHM J
RS58	76011101	CHIP, 1/20W 100 OHM J
RS59	76011101	CHIP, 1/20W 100 OHM J
RS60	76011101	CHIP, 1/20W 100 OHM J
RS61	76011101	CHIP, 1/20W 100 OHM J
RS64	76011682	CHIP, 1/20W 6.8K OHM J
RS65	76011182	CHIP, 1/20W 1.8K OHM J
RS66	76011100	CHIP, 1/20W 10 OHM J
RS67	76011101	CHIP, 1/20W 100 OHM J
RS68	76011101	CHIP, 1/20W 100 OHM J
RS78	76011102	CHIP, 1/20W 1K OHM J
RS81	76011102	CHIP, 1/20W 1K OHM J
RS82	76011682	CHIP, 1/20W 6.8K OHM J
RS85	76011472	CHIP, 1/20W 4.7K OHM J
RS86	76011472	CHIP, 1/20W 4.7K OHM J
RS87	76011101	CHIP, 1/20W 100 OHM J
RS88	76011101	CHIP, 1/20W 100 OHM J
RS500	76011103	CHIP, 1/20W 10K OHM J

Location No.	Parts No.	Description
RS501	76011153	CHIP, 1/20W 15K OHM J
RS504	76011153	CHIP, 1/20W 15K OHM J
RS505	76011103	CHIP, 1/20W 10K OHM J
RS516	76011101	CHIP, 1/20W 100 OHM J
RS517	76011101	CHIP, 1/20W 100 OHM J
RV30	76011222	CHIP, 1/20W 2.2K OHM J
RV31	76011391	CHIP, 1/20W 390 OHM J
RV32	76011331	CHIP, 1/20W 330 OHM J
RV35	76871750	CHIP, 1/8W 75 OHM J
RV36	76871750	CHIP, 1/8W 75 OHM J
RV40	76871750	CHIP, 1/8W 75 OHM J
RV41	76000445	CHIP JUMPER, 1608TYPE
RV42	76000445	CHIP JUMPER, 1608TYPE
RV43	76000445	CHIP JUMPER, 1608TYPE
RV44	76000445	CHIP JUMPER, 1608TYPE
RV45	76011750	CHIP, 1/20W 75 OHM J
RV46	76011750	CHIP, 1/20W 75 OHM J
RV50	76011123	CHIP, 1/20W 12K OHM J
RV51	76000445	CHIP JUMPER, 1608TYPE
RV52	76000445	CHIP JUMPER, 1608TYPE
RV64	76011123	CHIP, 1/20W 12K OHM J
RV76	76011750	CHIP, 1/20W 75 OHM J
RV78	76011123	CHIP, 1/20W 12K OHM J
RV121	76872750	CHIP, 1/16W 75 OHM J
RV122	76872750	CHIP, 1/16W 75 OHM J
RV123	76872750	CHIP, 1/16W 75 OHM J
RV129	76011101	CHIP, 1/20W 100 OHM J
RV287	76000445	CHIP JUMPER, 1608TYPE
RV288	76000445	CHIP JUMPER, 1608TYPE
RV289	76000445	CHIP JUMPER, 1608TYPE
RV290	76000445	CHIP JUMPER, 1608TYPE
RV291	76000445	CHIP JUMPER, 1608TYPE
RV292	76000445	CHIP JUMPER, 1608TYPE
RV306	76011473	CHIP, 1/20W 47K OHM J
RV330	76871750	CHIP, 1/8W 75 OHM J
RV331	76011101	CHIP, 1/20W 100 OHM J
RV332	76011101	CHIP, 1/20W 100 OHM J
RV340	76871750	CHIP, 1/8W 75 OHM J
RV370	76871750	CHIP, 1/8W 75 OHM J
RV376	76000445	CHIP JUMPER, 1608TYPE
RV377	76000445	CHIP JUMPER, 1608TYPE
RV414	76011222	CHIP, 1/20W 2.2K OHM J
RV415	76011222	CHIP, 1/20W 2.2K OHM J
RV416	76011222	CHIP, 1/20W 2.2K OHM J

COIL & TRANSFORMERS

L101	23248398	COIL, CHOKE, TLN3278D
L102	23103828	INDUCTOR, BEAD, TEM2121M
L103	23103828	INDUCTOR, BEAD, TEM2121M
L105	23277002	FERRITE CORE, ACM3225-102-2PT100
L151	23103828	INDUCTOR, BEAD, TEM2121M
L152	23103828	INDUCTOR, BEAD, TEM2121M
LB19	23103828	INDUCTOR, BEAD, TEM2121M
LC01	23103828	INDUCTOR, BEAD, TEM2121M
LC02	23103887	INDUCTOR, CHIP BEAD, TEM2130AM @U104
	23103828	INDUCTOR, BEAD, TEM2121M @U105A
LC03	23103271	FILTER, EMI 2012 2010HM 0.35A TEM2033AD @U104
	23103828	INDUCTOR, BEAD, TEM2121M @U105A
LC04	23103271	FILTER, EMI 2012 2010HM 0.35A TEM2033AD @U104
	23103828	INDUCTOR, BEAD, TEM2121M @U105A
LC05	23103887	INDUCTOR, CHIP BEAD, TEM2130AM
LC06	23103887	INDUCTOR, CHIP BEAD, TEM2130AM
LE10	23289980	COIL, PEAKING, TRF4220AZ
LE30	23248387	COIL, CHOKE 9X11H 22MMHK 2.5A TLN3499AA
LE31	23248386	COIL, CHOKE 9X11H 2.0MMH 4.0A TLN3481AA
LE60	23248456	COIL, CHOKE, TLN3540AH

Location No.	Parts No.	Description
LE61	23289980	COIL, PEAKING, TRF4220AZ
LE62	23248387	COIL, CHOKE 9X11H 22MMHK 2.5A TLN3499AA
LE70	23248387	COIL, CHOKE 9X11H 22MMHK 2.5A TLN3499AA
LE71	23248386	COIL, CHOKE 9X11H 2.0MMH 4.0A TLN3481AA
LV28	23277002	FERRITE CORE, ACM3225-102-2PT100
LV29	23246654	COIL, CHIP, TRF4220CG
LV31	23246662	COIL, CHIP, TRF4100CN
LV120	23277002	FERRITE CORE, ACM3225-102-2PT100
LV121	23277002	FERRITE CORE, ACM3225-102-2PT100
LV122	23277002	FERRITE CORE, ACM3225-102-2PT100
LV200	23103272	FILTER, EMI 2012 361OHM 0.22A TEM2034AD
LV201	23103272	FILTER, EMI 2012 361OHM 0.22A TEM2034AD
LV202	23103272	FILTER, EMI 2012 361OHM 0.22A TEM2034AD
LV203	23103272	FILTER, EMI 2012 361OHM 0.22A TEM2034AD
LV204	23103272	FILTER, EMI 2012 361OHM 0.22A TEM2034AD
LV205	23103272	FILTER, EMI 2012 361OHM 0.22A TEM2034AD
LV246	23277002	FERRITE CORE, ACM3225-102-2PT100
LV247	23246662	COIL, CHIP, TRF4100CN
LV248	23277002	FERRITE CORE, ACM3225-102-2PT100
LV249	23277002	FERRITE CORE, ACM3225-102-2PT100
LV284	23277002	FERRITE CORE, ACM3225-102-2PT100

SEMICONDUCTORS

Q101	23205506	TRANSISTOR, 2SC4081 Q
Q161	23205506	TRANSISTOR, 2SC4081 Q
Q660	23205506	TRANSISTOR, 2SC4081 Q
Q661	23205506	TRANSISTOR, 2SC4081 Q
Q663	23205506	TRANSISTOR, 2SC4081 Q
Q664	23205506	TRANSISTOR, 2SC4081 Q
Q665	23205325	TRANSISTOR, RN2404(F)
Q670	23085039	IC, TA8246AHQ
Q671	23205302	TRANSISTOR, 2SC3326-B(F)
Q672	23205302	TRANSISTOR, 2SC3326-B(F)
Q673	23205443	TRANSISTOR, 2SA1162-Y(F)
Q4100	23085635	TRANSISTOR, 2SC3437-Y(T85L,F)
Q4101	23085635	TRANSISTOR, 2SC3437-Y(T85L,F)
Q4102	23085635	TRANSISTOR, 2SC3437-Y(T85L,F)
Q4103	23085635	TRANSISTOR, 2SC3437-Y(T85L,F)
QB04	23205463	TRANSISTOR, 2SC2712-Y(T85L,F)
QB07	23205463	TRANSISTOR, 2SC2712-Y(T85L,F)
QB80	23085600	IC, PST9129
QB501	23085951	IC, BLASTER IC S3C80F9BKZ-SO77
QB502	23205307	TRANSISTOR, 2SA562TM-Y(F)
QB503	23205506	TRANSISTOR, 2SC4081 Q
QB504	23205506	TRANSISTOR, 2SC4081 Q
QB505	23205506	TRANSISTOR, 2SC4081 Q
QB508	23205307	TRANSISTOR, 2SA562TM-Y(F)
QB516	23009976	IC, BH33FB1WG-TR
QC01	23085879	IC, USB2224-NU-05 USB2224-NU-05
QC02	23085121	IC, TC7SH04FU(T85L,F)
QC03	23205578	TRANSISTOR, RTQ035P02 RTQ035P02
QC04	23205578	TRANSISTOR, RTQ035P02 RTQ035P02
QC05	23205578	TRANSISTOR, RTQ035P02 RTQ035P02
QC06	23205578	TRANSISTOR, RTQ035P02 RTQ035P02
QC07	23085774	IC, REG PQ033EZ01ZPH PQ033EZ01ZPH
QE01	23205313	TRANSISTOR, 2SC1815-Y(F)
QE02	23205313	TRANSISTOR, 2SC1815-Y(F)
QE03	23205315	TRANSISTOR, RN1206(F)
QE04	23205313	TRANSISTOR, 2SC1815-Y(F)
QE10	23135077	IC, SI-3090CA
QE11	23205315	TRANSISTOR, RN1206(F)
QE25	23205340	TRANSISTOR, 2SA1020-Y(F)
QE26	23205313	TRANSISTOR, 2SC1815-Y(F)
QE30	23135084	IC, MPD6S011S
QE60	23085381	IC, SI-8050SS
QE61	23205315	TRANSISTOR, RN1206(F)

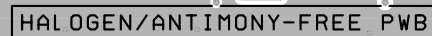
Location No.	Parts No.	Description
QE65	23135076	IC, SI-3050C
QE66	23205315	TRANSISTOR,RN1206(F)
QE70	23135084	IC, MPD6S011S
QE71	23205324	TRANSISTOR,RN2004(F)
QE85	23205339	TRANSISTOR,2SC2655-Y(F)
QE86 #2	23205339	TRANSISTOR,2SC2655-Y(F)
QH01	23085253	IC, SN74CB3Q3306APWR
QS01	23009916	IC, MM1631AJBE
QS03	23205302	TRANSISTOR,2SC3326-B(F)
QS04	23205302	TRANSISTOR,2SC3326-B(F)
QS05	23205325	TRANSISTOR,RN2404(F)
QS08	23205506	TRANSISTOR, 2SC4081 Q
QS09	23205506	TRANSISTOR, 2SC4081 Q
QS10	23205302	TRANSISTOR,2SC3326-B(F)
QS11	23205302	TRANSISTOR,2SC3326-B(F)
QS19	23205506	TRANSISTOR, 2SC4081 Q
QS102	23085576	IC, OP AMP, BA4558F
QV16	23085806	IC, 3 IN 1 OUT 75OHM DRIVER MM1228XFBE
QV18	23205330	TRANSISTOR,RN1403(F)
QV20	23085393	IC, MM1502XN
QV21	23205507	TRANSISTOR, 2SA1576A Q
QV22	23205329	TRANSISTOR,RN1404(F)
QV23	23205329	TRANSISTOR,RN1404(F)
QV282	23085352	IC, M52055FP
QV283	23205329	TRANSISTOR,RN1404(F)
D607	23357802	DIODE, ZENER, MA8330-M
D670	23362140	DIODE, KDS160-RTK
D671	23362140	DIODE, KDS160-RTK
D674	23362140	DIODE, KDS160-RTK
D675	23362140	DIODE, KDS160-RTK
D676	23362140	DIODE, KDS160-RTK
D678	23362140	DIODE, KDS160-RTK
D679	23362140	DIODE, KDS160-RTK
D681	23362140	DIODE, KDS160-RTK
DB01	23358606	DIODE, LED RED, SLR-56VC3FPQ
DB04	23358605	DIODE, LED GREEN, SLR-56MC3FPQR
DB20	23357406	DIODE, ZENER, UDZS5.6B
DB22	23357703	DIODE, 1SS355
DB23	23357703	DIODE, 1SS355
DB501	23357505	DIODE, VRM=80V IF=100MA SMINI2 MA2J11100L
DB502	23357765	DIODE, ZENER, MA8100-M
DB503	23357765	DIODE, ZENER, MA8100-M
DB504	23357505	DIODE, VRM=80V IF=100MA SMINI2 MA2J11100L
DC01	23362231	DIODE, NNCD6.8MG-T1
DC02	23362231	DIODE, NNCD6.8MG-T1
DC03	23362231	DIODE, NNCD6.8MG-T1
DC04	23362231	DIODE, NNCD6.8MG-T1
DC05	23362194	DIODE, HIGH SPEED SWITCHING 1SS193(TE85L,F)
DE01	23357706	DIODE, AK04
DE02	23357706	DIODE, AK04
DE03	23357823	DIODE, ZENER, MTZJ3.6A
DE04	23357821	DIODE, ZENER, MTZJ3.3A
DE05	23357499	DIODE, ERB12-01
DE06	23357697	DIODE, 1SS133
DE07	23357821	DIODE, ZENER, MTZJ3.3A
DE08	23357499	DIODE, ERB12-01
DE09	23357697	DIODE, 1SS133
DE10	23357697	DIODE, 1SS133
DE14 #2	23357697	DIODE, 1SS133
DE31	23357697	DIODE, 1SS133
DE32	23357829	DIODE, ZENER, MTZJ4.3C
DE60	23357810	DIODE, FMB-G14L
DE61	23357697	DIODE, 1SS133
DE62	23357845	DIODE, ZENER, MTZJ7.5B
DE71	23357697	DIODE, 1SS133
DE72	23357829	DIODE, ZENER, MTZJ4.3C

Location No.	Parts No.	Description
DE74	23357697	DIODE, 1SS133
DE85	23357861	DIODE, ZENER, MTZJ11A
DE86	23357697	DIODE, 1SS133
DE87 #2	23357861	DIODE, ZENER, MTZJ11A
DE88 #2	23357697	DIODE, 1SS133
DE89 #2	23357499	DIODE, ERB12-01
DE99	23357840	DIODE, ZENER, MTZJ6.2B
DR01	23357765	DIODE, ZENER, MA8100-M
DR02	23357765	DIODE, ZENER, MA8100-M
DR03	23357765	DIODE, ZENER, MA8100-M
DV120	23357751	DIODE, ZENER, MA8068-M
MISCELLANEOUS		
⚠ B001 #1	23301662	DISPLAY, J-MD42HM8BSNJ
⚠ #2	23301665	DISPLAY, J-MD50HM8BSNJ
B001A #1	23405526	OPTICAL FILTER, PDP42V T47 SSC PM00QZ001
#2	23405527	OPTICAL FILTER, AGC 50XGA PDF-69Q6H
B205	23940501	PIECE, AV COVER ASSEMBLY 42HP95
B213	23717219	SCREW, PP3X8+SW+W SBN
⚠ B214 #1	23717214	SCREW, BITTB3X12SBN
B221	23717225	SCREW, PP4X20+SW+W SBN
B222	23717306	SCREW WITH WASHER
E871B	23960136	ADHESIVE, SILICONE, TSE3843-W
FE20	23144373	FUSE, RADIAL LEAD SUB-MINIATUR 250V 630MA
GJ413	76000445	CHIP JUMPER, 1608TYPE
GJ414	76000445	CHIP JUMPER, 1608TYPE
GR04	76000445	CHIP JUMPER, 1608TYPE
GR05	76000445	CHIP JUMPER, 1608TYPE
GR110	76000445	CHIP JUMPER, 1608TYPE
GR112	76000445	CHIP JUMPER, 1608TYPE
GR150	76000445	CHIP JUMPER, 1608TYPE
GR605	76000445	CHIP JUMPER, 1608TYPE
GR610	76000445	CHIP JUMPER, 1608TYPE
GR611	76000445	CHIP JUMPER, 1608TYPE
GR612	76000445	CHIP JUMPER, 1608TYPE
GR613	76000445	CHIP JUMPER, 1608TYPE
GRV55	76000445	CHIP JUMPER, 1608TYPE
GRV56	76000445	CHIP JUMPER, 1608TYPE
GRV57	76000445	CHIP JUMPER, 1608TYPE
⚠ H003	23344525	SWITCH, 2130 BUNPAI US DIG RSU143
H003A	23368943	CABLE, PHONO 350MM JLC YAF11-1194N
H003B	23368943	CABLE, PHONO 350MM JLC YAF11-1194N
H003C	23747055	NUT, F-CONNECTOR 2H BS
K903	23306644	REMOCON IR, IR BLASTER G-LINK VTR CONT
KB01	23009710	REMOCON RECEIVER, GP1UE281RK
MJ22	23389359	CABLE, FFC 0.5 50P L70 GOLD
MJ60	23389359	CABLE, FFC 0.5 50P L70 GOLD
MZ01 #1	23368940	CABLE, LVDS 550MM PDP2
#2	23368941	CABLE, LVDS 16P 450MM 23368941
N100 #1	23969797	TAPE
P601	23713755	PLUG, 4P 2.5MM G, B4B-EH-F1-TV4
P602A	23713938	CONNECTOR, CONNECTB5B-PH-K-S(LF)
P602B	23713938	CONNECTOR, CONNECTB5B-PH-K-S(LF)
P661	23023302	EARPHONE JACK
P662	23023302	EARPHONE JACK
⚠ P801	23372249	POWER CORD, LU/CSA 2M
⚠ P803A	23713763	PLUG, NP 2.5MM G, B12B-EH-F1A
⚠ P803B	23713763	PLUG, NP 2.5MM G, B12B-EH-F1A
⚠ P804A	23713757	PLUG, 6P 2.5MM G, B6B-EH-F1-TV4
⚠ P804B	23713757	PLUG, 6P 2.5MM G, B6B-EH-F1-TV4
⚠ P807A	23713763	PLUG, NP 2.5MM G, B12B-EH-F1A
⚠ P809A	23713762	PLUG, NP 2.5MM G, B11B-EH-F1A
P819	23713754	PLUG, 3P 2.5MM G, B3B-EH-F1-TV4
P820	23713754	PLUG, 3P 2.5MM G, B3B-EH-F1-TV4
P821 #2	23713754	PLUG, 3P 2.5MM G, B3B-EH-F1-TV4
P881	23023131	INLET, NOISE FILTER, GL-2080FVP-L

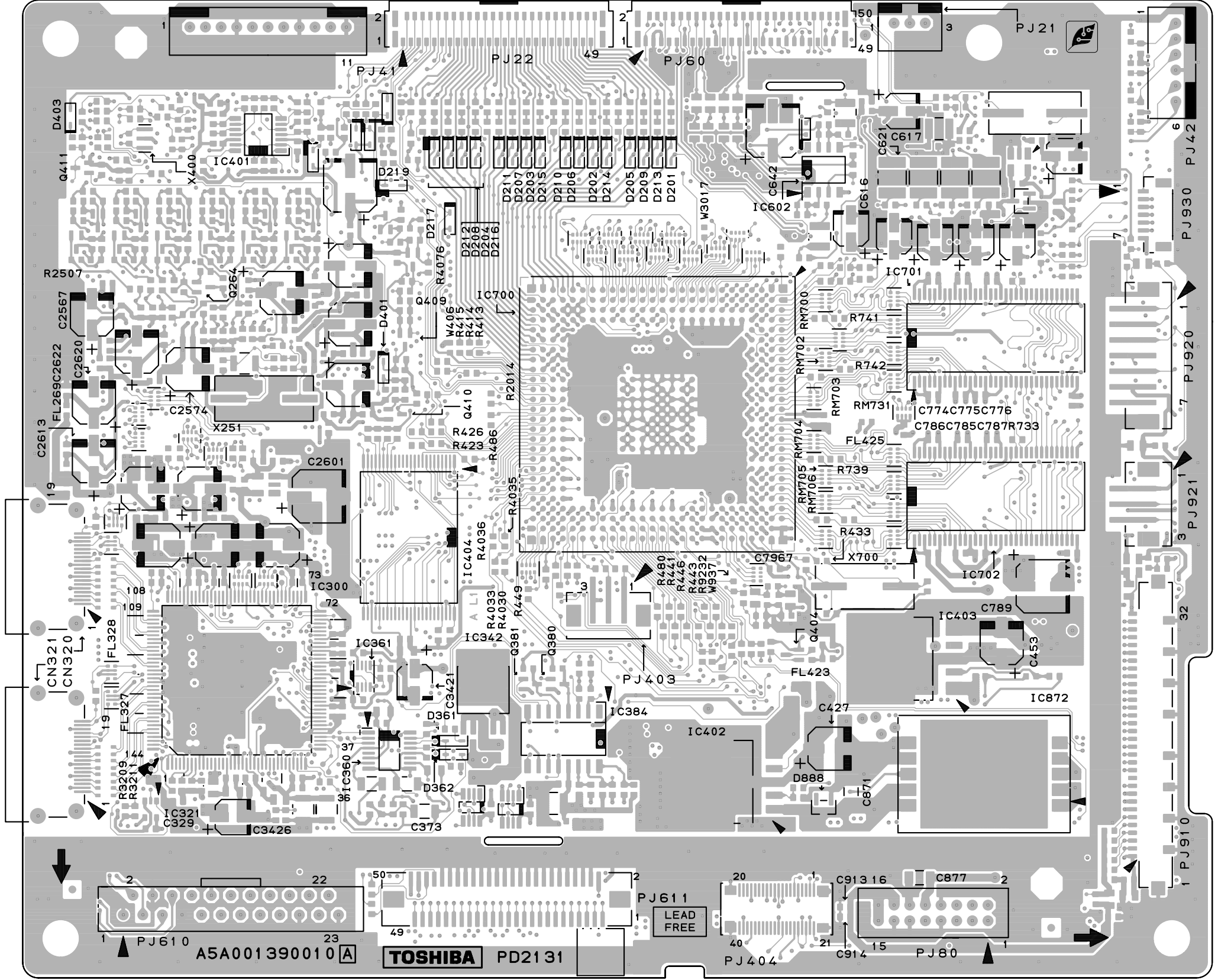
Location No.	Parts No.	Description
PB501	23023327	EARPHONE JACK
PB502	23023327	EARPHONE JACK
PB503	23023327	EARPHONE JACK
PC01	23713622	CONNECTOR, 2MM 5P SMD B5B-PH-SM4-TBT
PC02	23903251	SOCKET, CFH050-C7-1180
PC02A	23903257	SOCKET, CFHEJT-90-0000
PC03	23903250	SOCKET, CLE9042-0101F
△ PJ21A	23713934	CONNECTOR, 2MM 3P S WHT B3B-PH-K-S(LF)
PJ22A	23757176	CONNECTOR, IRS 9637S-50Y902 GLD
PJ41A	23713943	CONNECTOR, CONNECTB11B-PH-K-S(LF)
PJ41B	23713943	CONNECTOR, CONNECTB11B-PH-K-S(LF)
PJ41C	23713943	CONNECTOR, CONNECTB11B-PH-K-S(LF)
PJ60A	23757176	CONNECTOR, IRS 9637S-50Y902 GLD
△ PJ62A	23713910	CONNECTOR, CONNECTORB5P-VH(LF)
△ PJ63A	23713756	PLUG, 5P 2.5MM G, B5B-EH-F1-TV4
PP01 #2	23974994	BAND, KESSOKU
PP03 #2	23845859	HOLDER, WIRE, PVC-C0AT, L=70MM
PP05	23974994	BAND, KESSOKU
PP22 #1	23748085	WASHER, WASHER 10X4.2XT=0.3
PV01	23023311	JACK, PIN 2S6P, LAP5030-0111GC
PV02	23023315	JACK, PIN 7P SMK LAP5030-0203F
PV03	23023313	JACK, PIN 5P, LAP5030-0201G
PV05	23023318	JACK, PIN 5P, LAP50300206GC
PV25A	23713944	CONNECTOR, CONNECTB12B-PH-K-S(LF)
PV25B	23713944	CONNECTOR, CONNECTB12B-PH-K-S(LF)
PV60	23365275	JACK, PHONO 3P V-L-R YKC21
PV61	23023300	JACK, Y/C YKF51-5560
PV90	23713710	SOCKET, D-SUB 15P, KRD-8622
Q670B	23717240	SCREW
QE10B	23717240	SCREW
QE60B	23717240	SCREW
SA01	23344507	SWITCH, PUSH, SKHHLMA010
SA02	23344507	SWITCH, PUSH, SKHHLMA010
SA03	23344507	SWITCH, PUSH, SKHHLMA010
SA04	23344507	SWITCH, PUSH, SKHHLMA010
SA05	23344507	SWITCH, PUSH, SKHHLMA010
SA06	23344507	SWITCH, PUSH, SKHHLMA010
SA07	23344507	SWITCH, PUSH, SKHHLMA010
SA08	23344507	SWITCH, PUSH, SKHHLMA010
U800 #1	23122503	POWER UNIT, POWER BLOCK MODULE 1H277W
#2	23122504	POWER UNIT, POWER BLOCK MODULE 1H278W
△ UF01 #1	23125931	MOTOR, DCFAN 12V 80MM 350 D08A-12PM15B
UF02	23125929	MOTOR, FAN, FBL08A12L
△ UF03	23125942	MOTOR, DCFAN12V60MMPD06R-12TS1002BC2
UF04 #2	23125929	MOTOR, FAN, FBL08A12L
UF05 #2	23125951	MOTOR, DCFAN12V80MM750 D08A-12PM18B(EX)
W661	23351322	SPEAKER, ASSY, 6X12+6X12+TW SPK-1470BO
W662	23351322	SPEAKER, ASSY, 6X12+6X12+TW SPK-1470BO
XB501	23153504	CERAMIC RESONATOR, 8.00MHZ25OHM
XC01	23153589	CRYSTAL RESONATOR, XTAL 12MHZ
ZA01	23103778	FERRITE CORE, TFE1008
ZA02	23103839	FERRITE CORE, TFE1012
ZA03	23103840	FERRITE CORE, TFE1013
ZA11	23103778	FERRITE CORE, TFE1008
ZA12	23103839	FERRITE CORE, TFE1012
ZC01	76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8
ZC02	76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8
ZC03	76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8
ZC04	76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8
ZC05	76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8
ZC06	76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8
ZC07	76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8
ZC08	76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8
ZC09	76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8
ZC10	76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8
ZC11	76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8

Location No.	Parts No.	Description
ZC12	76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8
ZC13	76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8
ZC16	76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8
ZC18	76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8
ZC19	76019404	CHIP BLOCK, 1/16W 10K OHM J, P-8
ZC21	76019404	CHIP BLOCK, 1/16W 10K OHM J, P-8
ZC22	76019404	CHIP BLOCK, 1/16W 10K OHM J, P-8
ZC23	76019404	CHIP BLOCK, 1/16W 10K OHM J, P-8
PC BOARD ASSEMBLIES		
* U101	75001604	PC BOARD ASSY, PD2222B1 SIGNAL
* U102	75001605	PC BOARD ASSY, PD2266D1 SEIN FPD FULL NON LAN
* U103	75001699	PC BOARD ASSY, PD2301A1 D-TUNER
* U104	75001606	PC BOARD ASSY, PD2142A1 MULTI CARD
* U105A	75001615	PC BOARD ASSY, PD2220B1 TN/AV-AOUT
* U105B	75001616	PC BOARD ASSY, PD2220B2 FRONT-AV
* U105C	75001617	PC BOARD ASSY, PD2220B3 LED-RMT
* U105D	75001618	PC BOARD ASSY, PD2220B4 KEY-SW
* U803 #1	75001599	PC BOARD ASSY, PD2202B1 LOWB
* #2	75001686	PC BOARD ASSY, PD2202E1 LOWB
TUNER		
△ H001	23321536	TUNER, TIF US HOR IIC PH 864M ENG36A36GF
ACCESSORIES		
A701A #1	23015180	CARTON, TOP CASE 42HP95
#2	23015200	CARTON, TOP CASE 50HP95
A701B #1	23015181	CARTON, BOTTOM CASE 42HP95
#2	23015201	CARTON, BOTTOM CASE 50HP95
A702A #1	23580047	PACKING, TOP PACKING 42HP95
#2	23580062	PACKING, TOP PACKING 50HP95
A702B #1	23580048	PACKING, BOTTOM PACKING 42HP95
#2	23580063	PACKING, BOTTOM PACKING 50HP95
A705	23518043	PACKING, JOINT
△ K902	23306627	REMOCON HAND UNIT IR, PTVUSA CT-90233
△ Y101	23566699	OWNERS MANUAL, ENG/FRE/SPA 42HP95
Y170	23845800	HOLDER, WIRE, NYLON66 D6.8
Y174	23845510	BAND
CABINET PARTS		
△ A201 #1	23533599	COVER, FRONT BEZEL ASSY 42HP95
△ #2	23533638	COVER, FRONT COVER ASSY 50HP95
A206	23469406	INSULATOR, INSULATOR
A220	23940495	PIECE, PIECE FRONT AV ASSY 42HP95
A221	23940494	PIECE, PIECE CONTROL ASSY 42HP95
A230	23717192	SCREW, SCREW, AV BOARD
A231	23717214	SCREW, BITTB3X12SBN
A235	23717177	SCREW, PP5X12+SW+W SBN
A237 #1	23717250	SCREW, PP4X12+SW+W SBN
△ A401 #1	23533556	COVER, BACK COVER ASSY
△ #2	23533615	COVER, BACK COVER ASSY OVER ASSY
A403	23436887	FOOT, STAND ASSY 42HP95
A410	23533616	COVER, CABLE COVER PROPER 42HP95
A423	23717217	SCREW, PP6X35+SW+W SBN

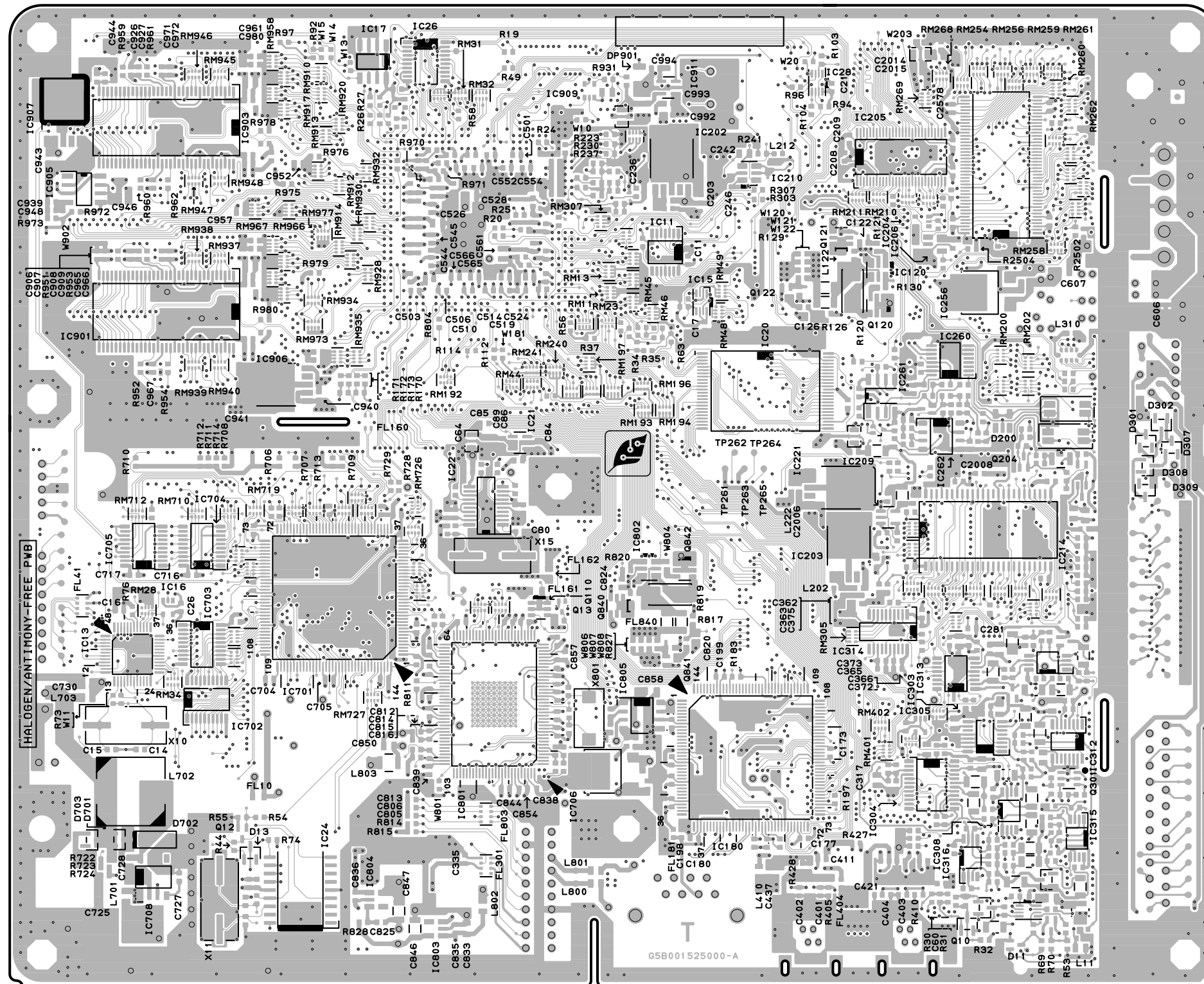
BOTTOM (FOIL) SIDE



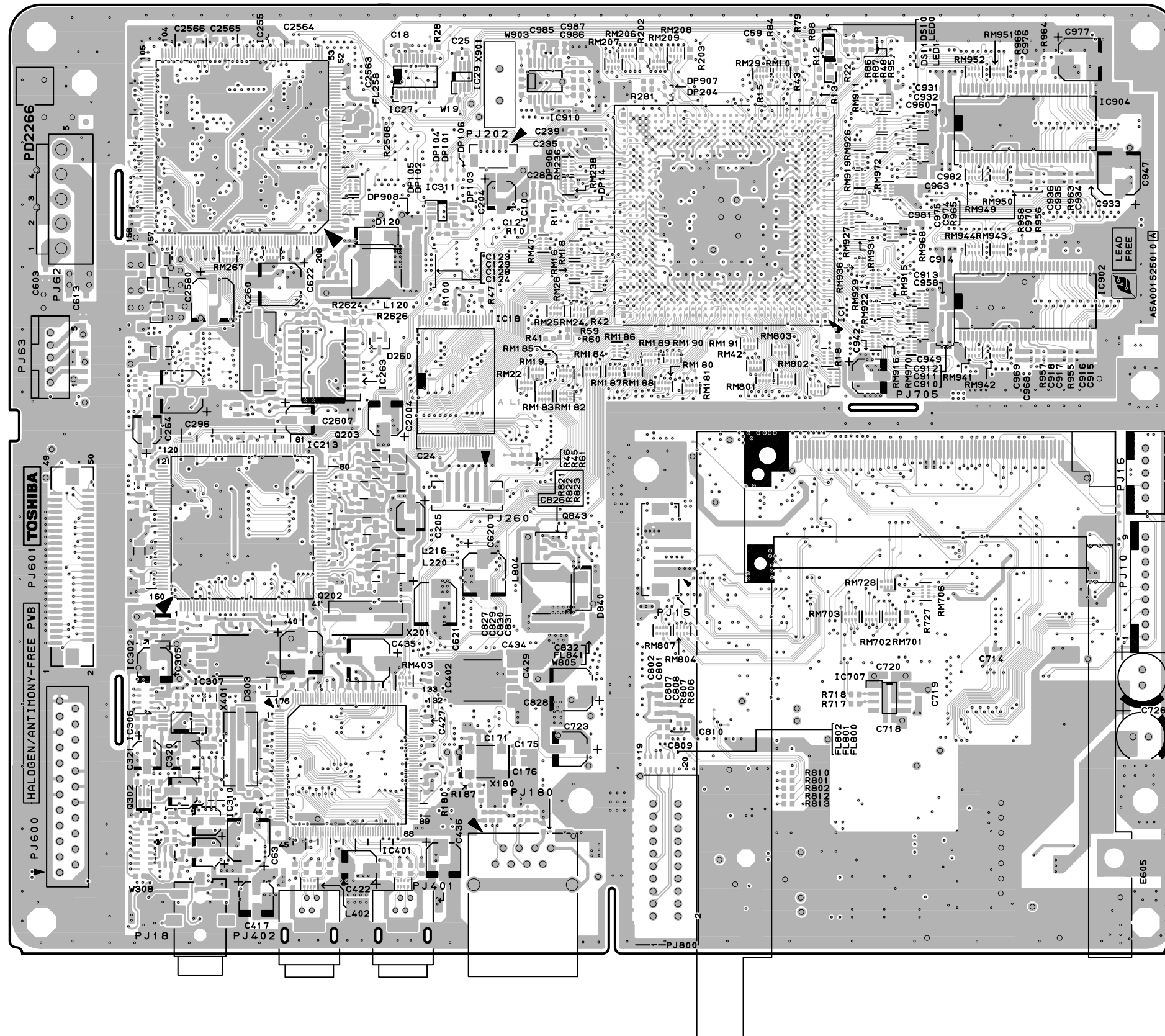
SIGNAL BOARD PD2222B1 (U101)
TOP (COMPONENT) SIDE



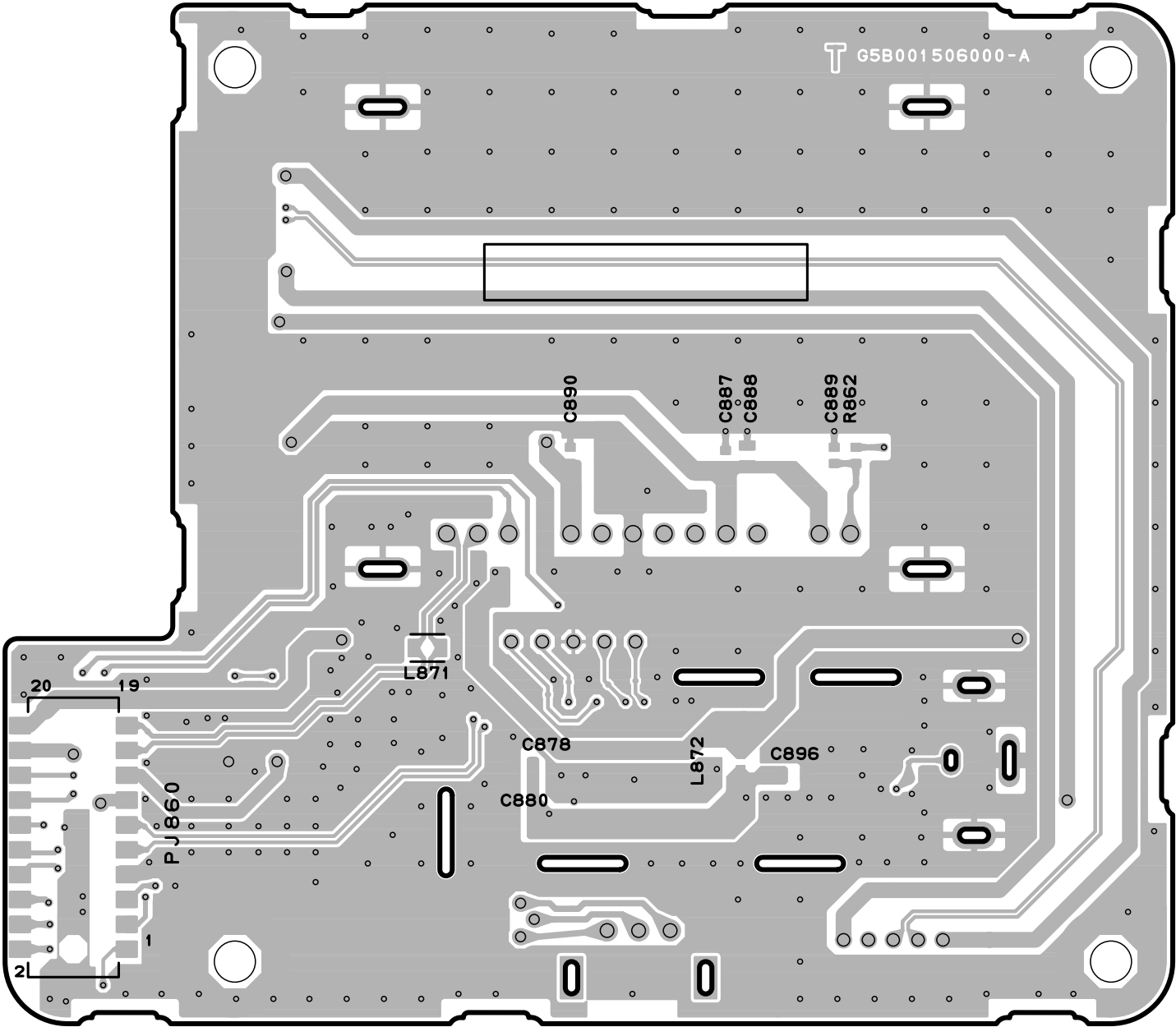
BOTTOM (FOIL) SIDE



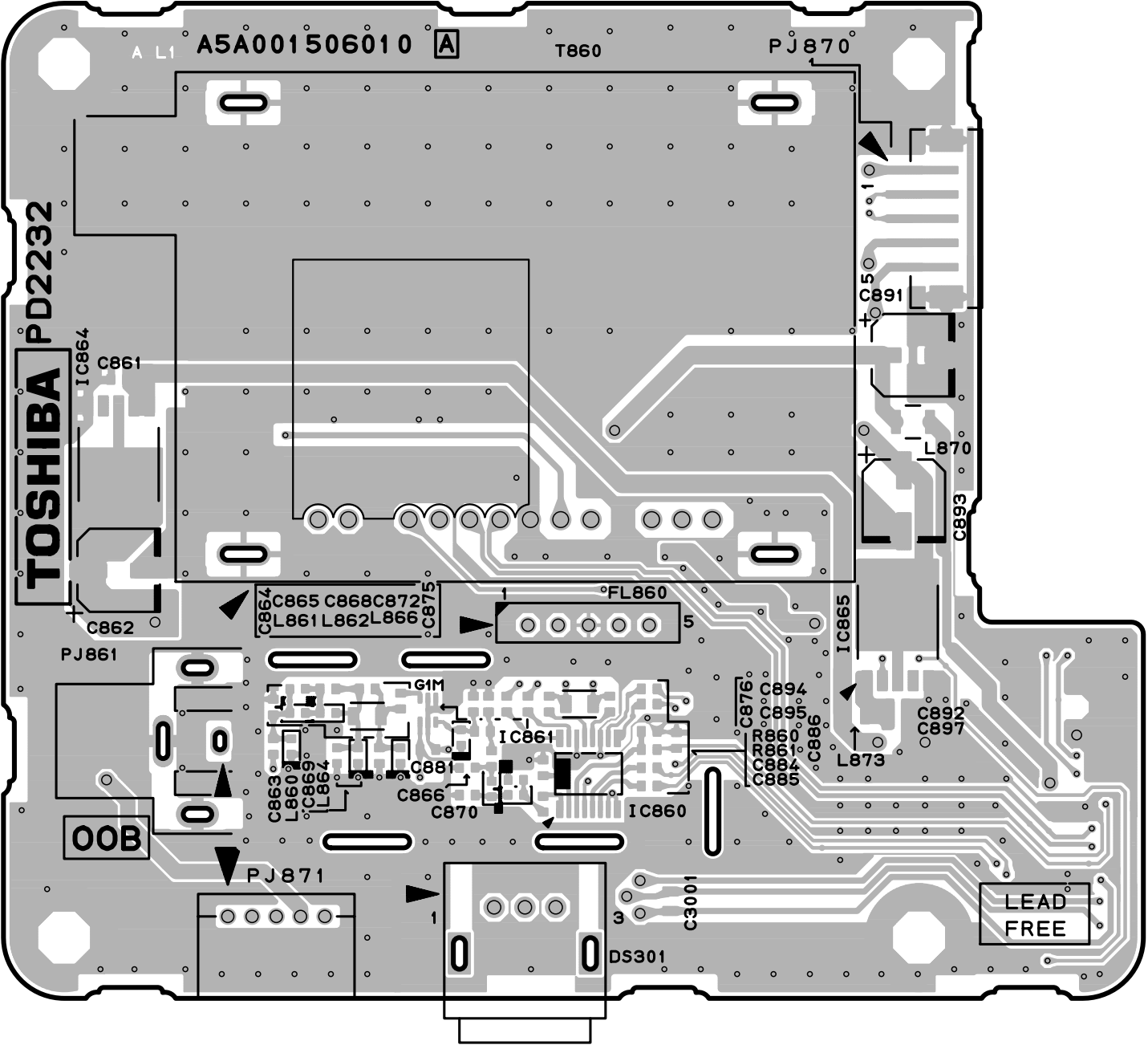
TOP (COMPONENT) SIDE



D-TUNER BOARD PD2301A1 (U103)
BOTTOM (FOIL) SIDE

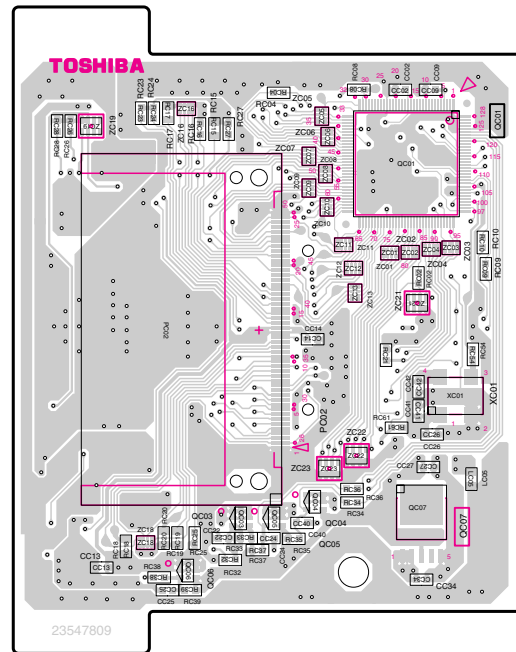


D-TUNER BOARD PD2301A1 (U103)
TOP (COMPONENT) SIDE



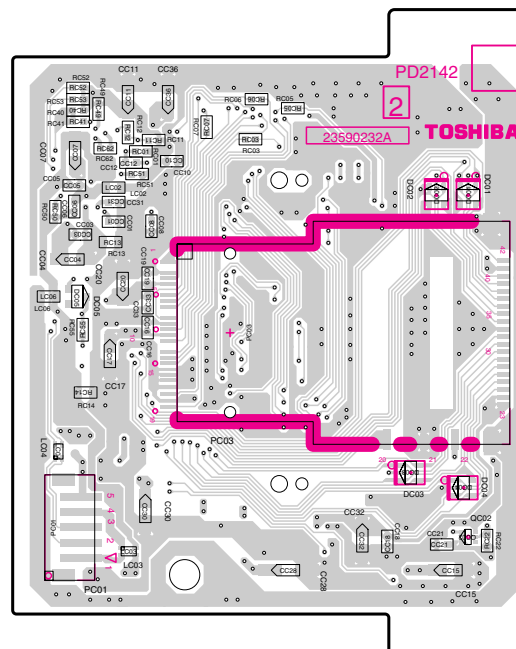
MULTI CARD BOARD PD2142A1 (U104)

BOTTOM (FOIL) SIDE

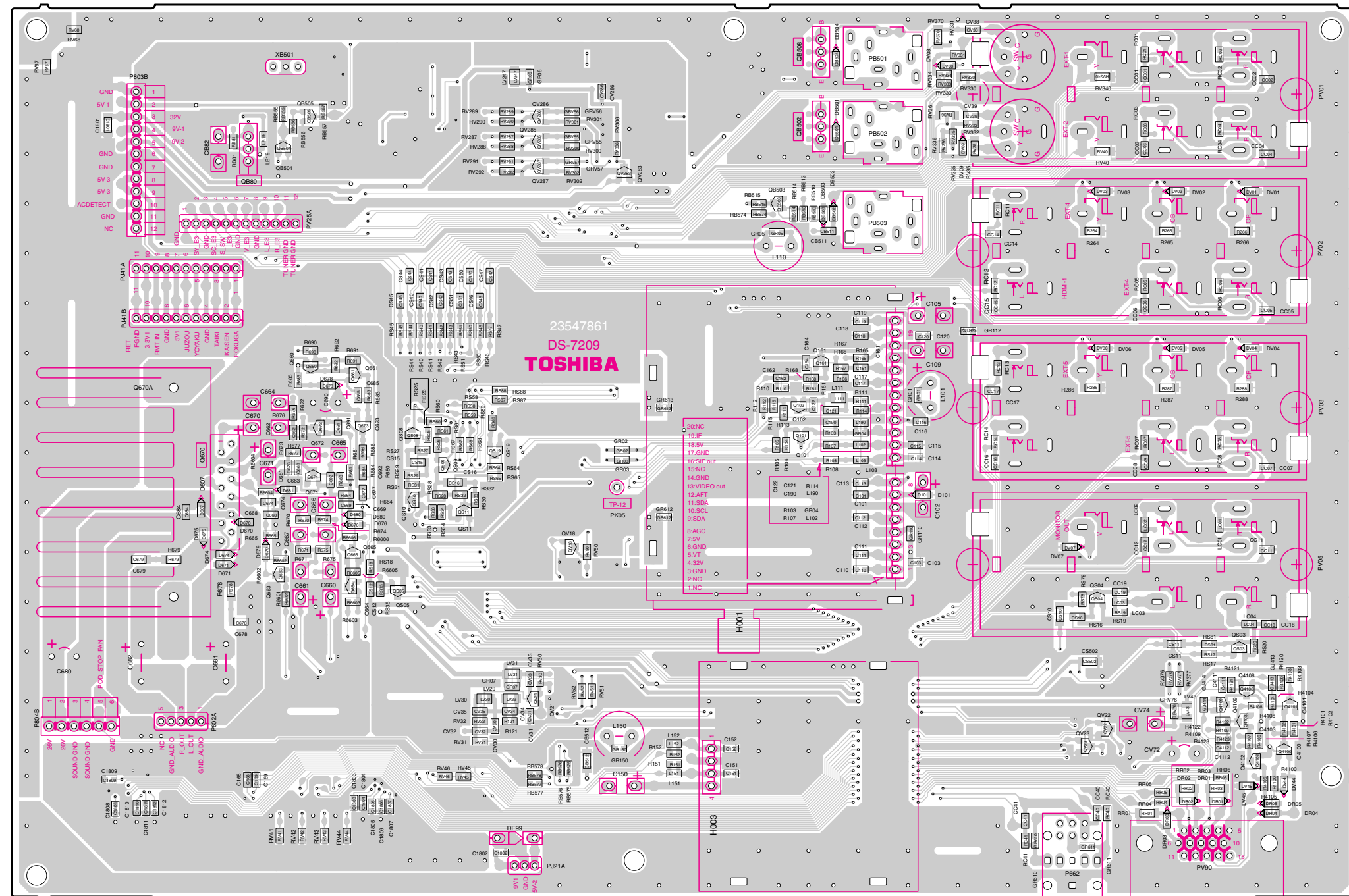


MULTI CARD BOARD PD2142A1 (U104)

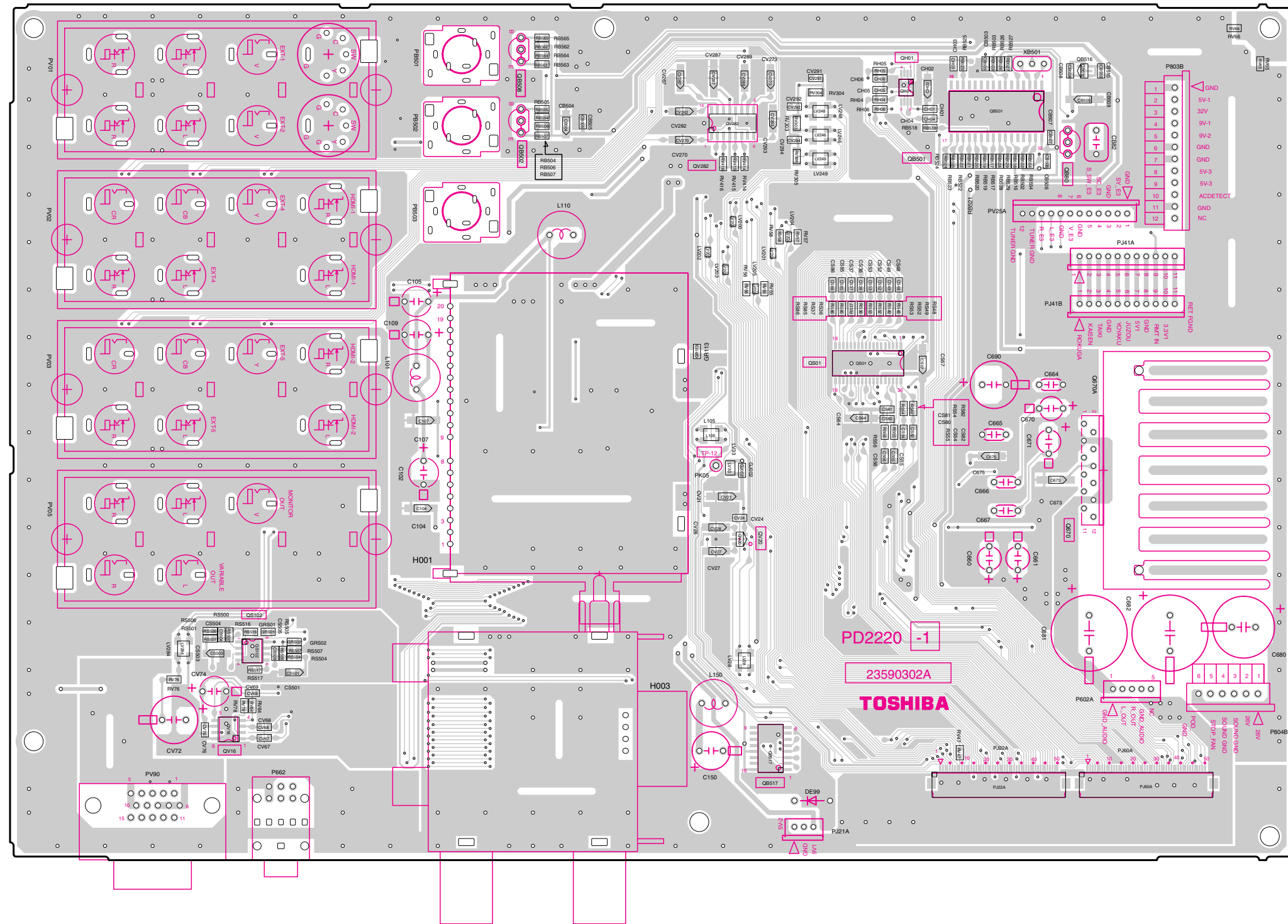
TOP (COMPONENT) SIDE



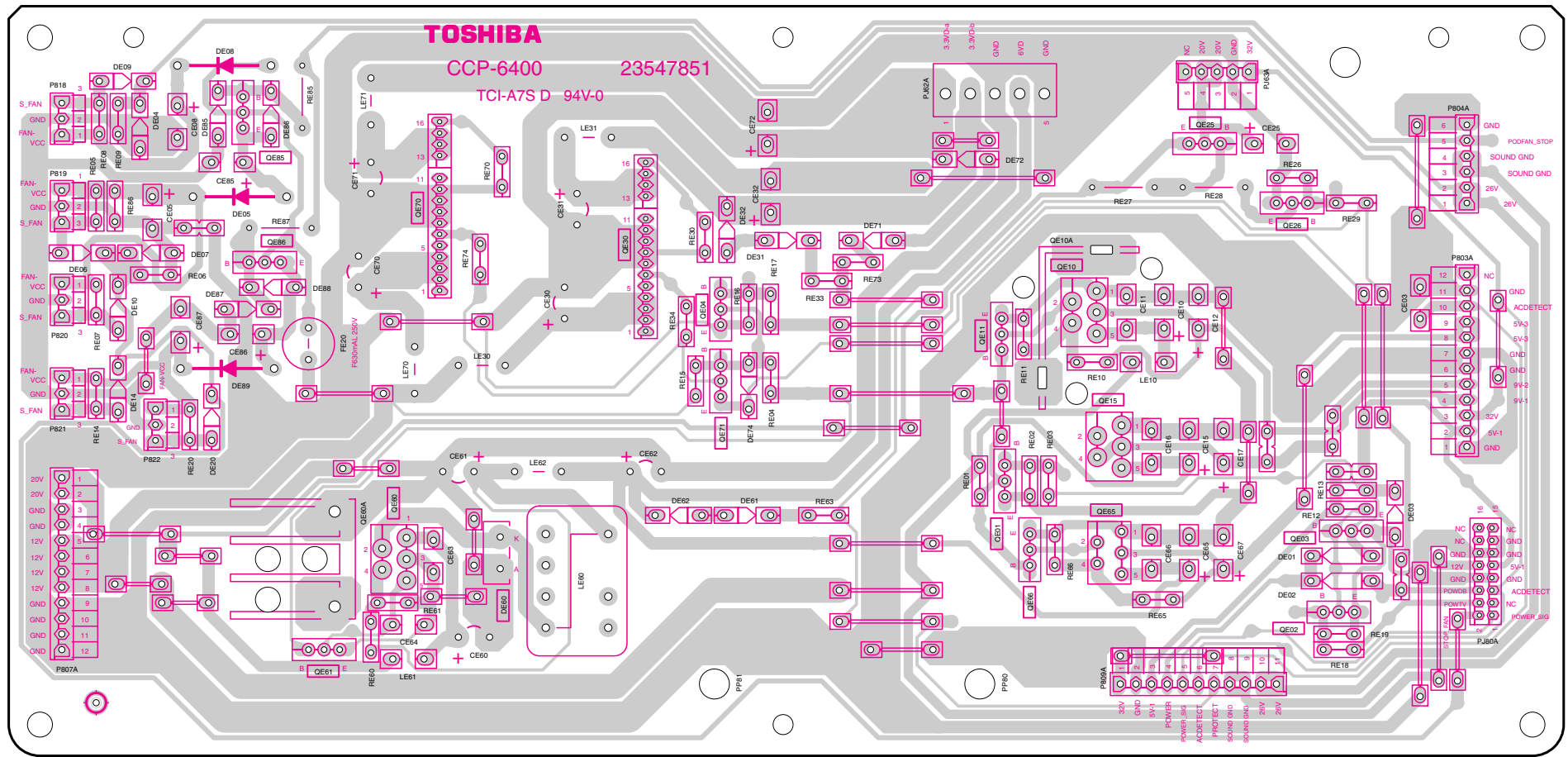
BOTTOM (FOIL) SIDE



TN/AV-AOUT BOARD PD2220B1 (U105A) TOP (COMPONENT) SIDE



LOWB BOARD (42HP95:PD2202B1 50HP95:PD2202E1) (U803)
BOTTOM (FOIL) SIDE



SCHEMATIC DIAGRAM

MODEL : 42HP95/50HP95

WARNING : BEFORE SERVICING THIS CHASSIS, READ THE "SERVICE SAFETY PRECAUTIONS" ON PAGE 3 OF THIS MANUAL.

CAUTION : The international hazard symbols " $\triangle$ " in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the SERVICE SAFETY PRECAUTIONS on the MANUAL for this model. Do not degrade the safety of the receiver through improper servicing.

NOTE:

1. RESISTOR Resistance is shown in ohm [K = 1.000, M = 1.000.000]. All resistors are 1/6W and 5% tolerance carbon resistor, unless otherwise noted as the following marks.
1/2R = Metal or Metal oxide of 1/2 watt 1/2S = Carbon composition of 1/2 watt
1RF = Fuse resistor of 1 watt 10W = Cement of 10 watt
K = $\pm 10\%$ G = $\pm 2\%$ F = $\pm 1\%$
2. CAPACITOR Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in μF , and the values more than 1 in pF.
All capacitors are ceramic 50V, unless otherwise noted as the following marks.
 Electrolytic capacitor  Mylar capacitor
3. The parts indicated with " $\triangle$ " have special characteristics, and should be replaced with identical parts only.
4. Voltages read with DIGITAL MULTI-METER from point indicated to chassing ground, using a color bar signal with all controls at normal, line voltage 220 volts.
5. Waveforms are taken receiving color bar signal with enough sensitivity.
6. Voltage reading shown are nominal values and may vary $\pm 20\%$ except H.V.

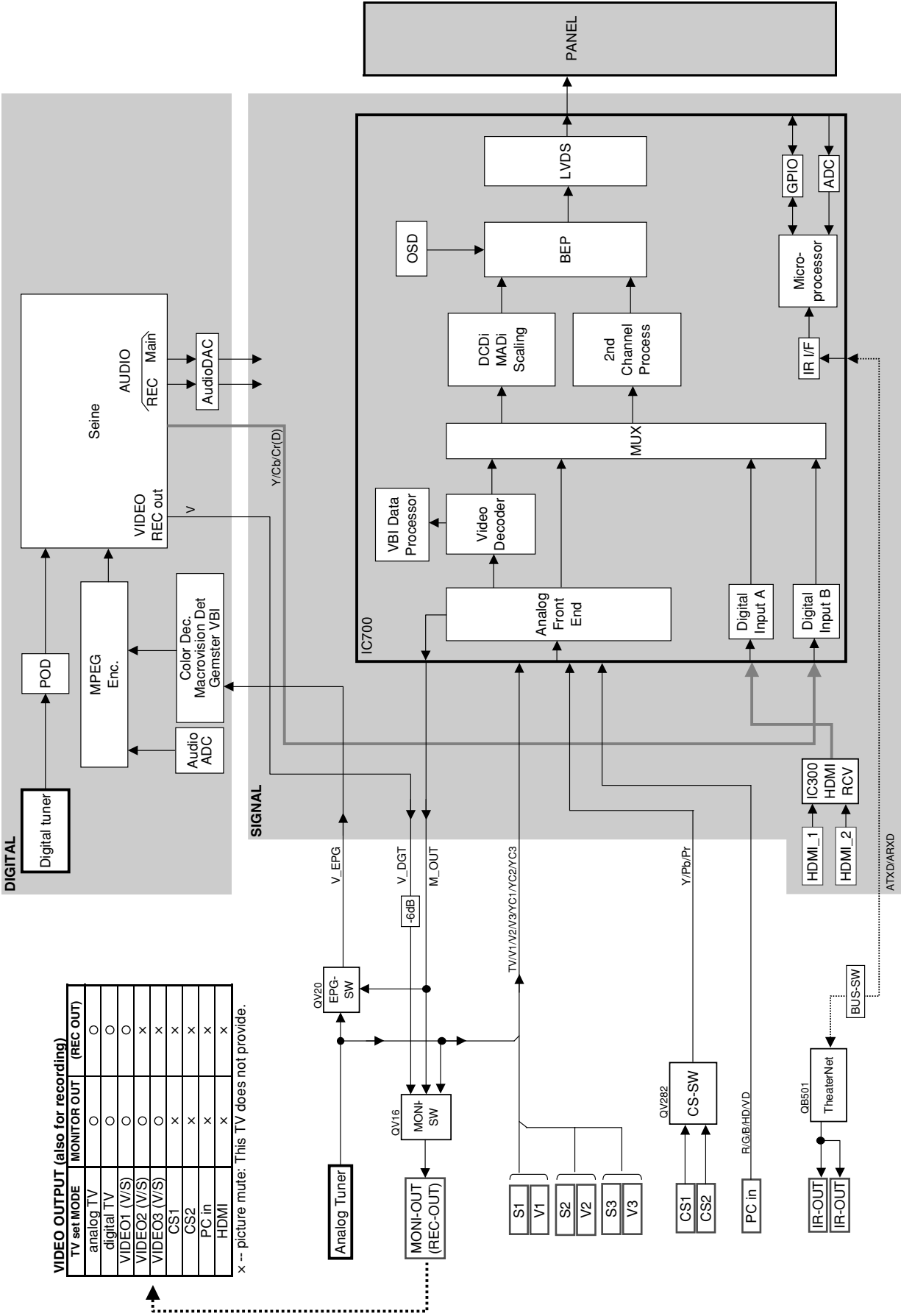
■ SCHEMATIC DIAGRAM STRUCTURE:

MULTI CARD		[SHEET-1/4]	1/128
		[SHEET-2/4]	2/128
		[SHEET-3/4]	3/128
		[SHEET-4/4]	4/128
TN/AV A-OUT	CONNECTOR	[SHEET-1/8]	5/128
	AV TERMINAL	[SHEET-2/8]	6/128
	RF-SW&TIF	[SHEET-3/8]	7/128
	A-OUT	[SHEET-4/8]	8/128
	VIDEO-SW	[SHEET-5/8]	9/128
	AUDIO-SW	[SHEET-6/8]	10/128
	IR-MICON	[SHEET-7/8]	11/128
	EXPANDER FOR PDP	[SHEET-8/8]	12/128
FRONT-AV			13/128
IR LED			14/128
KEY			15/128
LOWB			16/128
SIGNAL	ANALOG IN	[SHEET-200]	17/128
	D IN A	[SHEET-300]	18/128
	D IN B	[SHEET-301]	19/128
	HDMI (Link, I2C)	[SHEET-302]	20/128
	HDMI Rx#2 (Video/Audio)	[SHEET-303]	21/128
	HDMI Rx#3 (PWR,Audio)	[SHEET-304]	22/128
	HDMI AUDIO PLL	[SHEET-305]	23/128
	HDMI AUDIO DAC	[SHEET-306]	24/128
	HDMI AUDIO OUT	[SHEET-307]	25/128
	HDMI CONTROLLER	[SHEET-308]	26/128
	EEPROM1	[SHEET-309]	27/128
	EEPROM2	[SHEET-310]	28/128
	MICRO I/O	[SHEET-400]	29/128
	OCM MEMORY I/F	[SHEET-401]	30/128
	FLASH MEMORY	[SHEET-402]	31/128
	SYNC SEPA	[SHEET-403]	32/128
	E2P OTHER	[SHEET-404]	33/128
	STD-BY MICOR	[SHEET-405]	34/128
	CORTEZ REG 1	[SHEET-406]	35/128
	CORTEZ REG 2	[SHEET-407]	36/128
	CORTEZ REG 3	[SHEET-408]	37/128
	BOOT CONFIG	[SHEET-409]	38/128
	SERVICE CONNECTOR	[SHEET-410]	39/128
	I2C Switch	[SHEET-411]	40/128
	STBY MICRO for DVD internal	[SHEET-412]	41/128
	DVD 10pin connector	[SHEET-413]	42/128
	I2C Level shift	[SHEET-414]	43/128
	AUDIO	[SHEET-600]	44/128
	AUDIO MSP	[SHEET-601]	45/128
	CORTEZ 1	[SHEET-700]	46/128
	CORTEZ 2	[SHEET-701]	47/128
	DDR I/F	[SHEET-702]	48/128
	DDR SDRAM	[SHEET-703]	49/128
	DDR TERMINATION	[SHEET-704]	50/128
	DCDC CONV.	[SHEET-802]	51/128
	LVDS OUT	[SHEET-900]	52/128
	LVDS OUT(SHARP LCD)	[SHEET-901]	53/128
	Power Connector and Dimming	[SHEET-902]	54/128
	LVDS Power and Others	[SHEET-903]	55/128

SEIN FPD FULL NON LAN	SEINE RESET/CLOCK/TIMER/IRC	[SHEET-1] 56/128
	SEINE SLOW BUS	[SHEET-2] 57/128
	SLOW BUS ADDRESS REGISTER	[SHEET-3] 58/128
	SEINE IIC/UART	[SHEET-4] 59/128
	SEINE PIO	[SHEET-5] 60/128
	ROM/FLASH	[SHEET-6] 61/128
	M-SYSTEM(NANDFLASHROM)	[SHEET-7] 62/128
	IR	[SHEET-8] 63/128
	GLINK IR-OUT	[SHEET-9] 64/128
	CLOCK GEN.	[SHEET-10] 65/128
	USB I/F	[SHEET-11] 66/128
	UART0 INTERFACE	[SHEET-12] 67/128
	EJTAG CONNECTOR	[SHEET-13] 68/128
	SEINE PCI BUS	[SHEET-14] 69/128
	MPU POWER	[SHEET-16] 70/128
	Ext UART	[SHEET-17] 71/128
	MACPHYTER 1	[SHEET-20] 72/128
		(1/2)
		(2/2)
	RJ45	[SHEET-22] 74/128
	TUENR CONNECTOR	[SHEET-100] 75/128
	T313(Signal)	[SHEET-101] 76/128
	1.1VRegulator	[SHEET-102] 77/128
	T313(Power)	[SHEET-103] 78/128
	Seine TS I/F	[SHEET-150] 79/128
	SEINE CAPTURE IN	[SHEET-200] 80/128
	VIDEO POWER	[SHEET-210] 81/128
	SEINE DIGITAL OUT	[SHEET-220] 82/128
	SEINE-BEP IF	[SHEET-221] 83/128
	SEINE DAC OUT	[SHEET-225] 84/128
	DOWN CON OUT DRIVER	[SHEET-226] 85/128
	HD OUT LPF	[SHEET-227] 86/128
	MACRO VCD	[SHEET-240] 87/128
		(1/2)
		(2/2)
	VIDEO LPF	[SHEET-242] 89/128
	MPEG Enc. (CLK, SDRAM)	[SHEET-250] 90/128
	MPEG Enc. (AV I/F)	[SHEET-251] 91/128
	MPEG Enc. (STREAM I/F)	[SHEET-252] 92/128
	MPEG Enc. (POWER)	[SHEET-253] 93/128
	LPF, Slicer	[SHEET-260] 94/128
	H/V Sync Sep.	[SHEET-261] 95/128
	AUDIO POWER	[SHEET-300] 96/128
	SEINE AUDIO I/F	[SHEET-301] 97/128
	AUDIO DAC	[SHEET-302] 98/128
	AUDIO PLL/DAC	[SHEET-303] 99/128
	AUDIO VTR OUT	[SHEET-304] .. 100/128
	AUDIO SP OUT	[SHEET-305] .. 101/128
	MPEG2 AUDIO TV IN	[SHEET-306] .. 102/128
	MPEG2 AUDIO ADC	[SHEET-307] .. 103/128
	MPEG2 AUDIO PLL	[SHEET-308] .. 104/128
	AUDIO DAC 0.1CH	[SHEET-309] .. 105/128
	AUDIO VTR OUT	[SHEET-310] .. 106/128
	MB86619	[SHEET-400] .. 107/128
	MB86619 (POWER)	[SHEET-401] .. 108/128
	CPLD XILINX	[SHEET-700] .. 109/128
	SLOWBUS	[SHEET-701] .. 110/128
	PODVPP	[SHEET-702] .. 111/128

SEIN FPD FULL NON LAN	POD I/F	[SHEET-703] .. 112/128
	PODVCC	[SHEET-704] .. 113/128
	DDR SDRAM I/F	[SHEET-901] .. 114/128
	DDR 1	[SHEET-902] .. 115/128
	DDR 2	[SHEET-903] .. 116/128
	DDR 3	[SHEET-904] .. 117/128
	DDR 4	[SHEET-905] .. 118/128
	DDR POWER	[SHEET-906] .. 119/128
	TERMINATOR	[SHEET-907] .. 120/128
	VCXO	[SHEET-941] .. 121/128
	SEINE VDD/VSS	[SHEET-950] .. 122/128
	SIGNAL CONNECTOR	[SHEET-960] .. 123/128
	POWER CONNECTOR	[SHEET-961] .. 124/128
	Signal filter	[SHEET-964] .. 125/128
D-TUNER	TUNER CONNECTOR(TUNER)	[SHEET-104] .. 126/128
	OOB FDC	[SHEET-105] .. 127/128
	FAT TUNER	[SHEET-106] .. 128/128

CIRCUIT BLOCK DIAGRAM



TOSHIBA CORPORATION

1-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105-8001, JAPAN

CIRCUIT DIAGRAMS

Plasma Color Television

42HP95
50HP95

SCHEMATIC DIAGRAM

MODEL : 42HP95/50HP95

WARNING : BEFORE SERVICING THIS CHASSIS, READ THE "SERVICE SAFETY PRECAUTIONS" ON THE MANUAL FOR THIS MODEL.

CAUTION : The international hazard symbols " $\triangle$ " in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the SERVICE SAFETY PRECAUTIONS on the MANUAL for this model. Do not degrade the safety of the receiver through improper servicing.

NOTE:

1. RESISTOR Resistance is shown in ohm [K = 1.000, M = 1.000.000]. All resistors are 1/6W and 5% tolerance carbon resistor, unless otherwise noted as the following marks.
1/2R = Metal or Metal oxide of 1/2 watt 1/2S = Carbon composition of 1/2 watt
1RF = Fuse resistor of 1 watt 10W = Cement of 10 watt
K = $\pm 10\%$ G = $\pm 2\%$ F = $\pm 1\%$
2. CAPACITOR Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in μF , and the values more than 1 in pF.
All capacitors are ceramic 50V, unless otherwise noted as the following marks.
—⁺||— Electrolytic capacitor —[⊗]||— Mylar capacitor
3. The parts indicated with " $\triangle$ " have special characteristics, and should be replaced with identical parts only.
4. Voltages read with DIGITAL MULTI-METER from point indicated to chassing ground, using a color bar signal with all controls at normal, line voltage 220 volts.
5. Waveforms are taken receiving color bar signal with enough sensitivity.
6. Voltage reading shown are nominal values and may vary $\pm 20\%$ except H.V.

■ SCHEMATIC DIAGRAM STRUCTURE:

MULTI CARD		[SHEET-1/4]	1/128
		[SHEET-2/4]	2/128
		[SHEET-3/4]	3/128
		[SHEET-4/4]	4/128
TN/AV A-OUT	CONNECTOR	[SHEET-1/8]	5/128
	AV TERMINAL	[SHEET-2/8]	6/128
	RF-SW&TIF	[SHEET-3/8]	7/128
	A-OUT	[SHEET-4/8]	8/128
	VIDEO-SW	[SHEET-5/8]	9/128
	AUDIO-SW	[SHEET-6/8]	10/128
	IR-MICON	[SHEET-7/8]	11/128
	EXPANDER FOR PDP	[SHEET-8/8]	12/128
FRONT-AV			13/128
IR LED			14/128
KEY			15/128
LOWB			16/128
SIGNAL	ANALOG IN	[SHEET-200]	17/128
	D IN A	[SHEET-300]	18/128
	D IN B	[SHEET-301]	19/128
	HDMI (Link, I2C)	[SHEET-302]	20/128
	HDMI Rx#2 (Video/Audio)	[SHEET-303]	21/128
	HDMI Rx#3 (PWR,Audio)	[SHEET-304]	22/128
	HDMI AUDIO PLL	[SHEET-305]	23/128
	HDMI AUDIO DAC	[SHEET-306]	24/128
	HDMI AUDIO OUT	[SHEET-307]	25/128
	HDMI CONTROLLER	[SHEET-308]	26/128
	EEPROM1	[SHEET-309]	27/128
	EEPROM2	[SHEET-310]	28/128
	MICRO I/O	[SHEET-400]	29/128
	OCM MEMORY I/F	[SHEET-401]	30/128
	FLASH MEMORY	[SHEET-402]	31/128
	SYNC SEPA	[SHEET-403]	32/128
	E2P OTHER	[SHEET-404]	33/128
	STD-BY MICOR	[SHEET-405]	34/128
	CORTEZ REG 1	[SHEET-406]	35/128
	CORTEZ REG 2	[SHEET-407]	36/128
	CORTEZ REG 3	[SHEET-408]	37/128
	BOOT CONFIG	[SHEET-409]	38/128
	SERVICE CONNECTOR	[SHEET-410]	39/128
	I2C Switch	[SHEET-411]	40/128
	STBY MICRO for DVD internal	[SHEET-412]	41/128
	DVD 10pin connector	[SHEET-413]	42/128
	I2C Level shift	[SHEET-414]	43/128
	AUDIO	[SHEET-600]	44/128
	AUDIO MSP	[SHEET-601]	45/128
	CORTEZ 1	[SHEET-700]	46/128
	CORTEZ 2	[SHEET-701]	47/128
	DDR I/F	[SHEET-702]	48/128
	DDR SDRAM	[SHEET-703]	49/128
	DDR TERMINATION	[SHEET-704]	50/128
	DCDC CONV.	[SHEET-802]	51/128
	LVDS OUT	[SHEET-900]	52/128
	LVDS OUT(SHARP LCD)	[SHEET-901]	53/128
	Power Connector and Dimming	[SHEET-902]	54/128
	LVDS Power and Others	[SHEET-903]	55/128

SEIN FPD FULL NON LAN	SEINE RESET/CLOCK/TIMER/IRC	[SHEET-1] 56/128
	SEINE SLOW BUS	[SHEET-2] 57/128
	SLOW BUS ADDRESS REGISTER	[SHEET-3] 58/128
	SEINE IIC/UART	[SHEET-4] 59/128
	SEINE PIO	[SHEET-5] 60/128
	ROM/FLASH	[SHEET-6] 61/128
	M-SYSTEM(NANDFLASHROM)	[SHEET-7] 62/128
	IR	[SHEET-8] 63/128
	GLINK IR-OUT	[SHEET-9] 64/128
	CLOCK GEN.	[SHEET-10] 65/128
	USB I/F	[SHEET-11] 66/128
	UART0 INTERFACE	[SHEET-12] 67/128
	EJTAG CONNECTOR	[SHEET-13] 68/128
	SEINE PCI BUS	[SHEET-14] 69/128
	MPU POWER	[SHEET-16] 70/128
	Ext UART	[SHEET-17] 71/128
	MACPHYTER 1	(1/2) [SHEET-20] 72/128
		(2/2) [SHEET-21] 73/128
	RJ45	[SHEET-22] 74/128
	TUENR CONNECTOR	[SHEET-100] 75/128
	T313(Signal)	[SHEET-101] 76/128
	1.1VRegulator	[SHEET-102] 77/128
	T313(Power)	[SHEET-103] 78/128
	Seine TS I/F	[SHEET-150] 79/128
	SEINE CAPTURE IN	[SHEET-200] 80/128
	VIDEO POWER	[SHEET-210] 81/128
	SEINE DIGITAL OUT	[SHEET-220] 82/128
	SEINE-BEP IF	[SHEET-221] 83/128
	SEINE DAC OUT	[SHEET-225] 84/128
	DOWN CON OUT DRIVER	[SHEET-226] 85/128
	HD OUT LPF	[SHEET-227] 86/128
	MACRO VCD	(1/2) [SHEET-240] 87/128
		(2/2) [SHEET-241] 88/128
	VIDEO LPF	[SHEET-242] 89/128
	MPEG Enc. (CLK, SDRAM)	[SHEET-250] 90/128
	MPEG Enc. (AV I/F)	[SHEET-251] 91/128
	MPEG Enc. (STREAM I/F)	[SHEET-252] 92/128
	MPEG Enc. (POWER)	[SHEET-253] 93/128
	LPF, Slicer	[SHEET-260] 94/128
	H/V Sync Sep.	[SHEET-261] 95/128
	AUDIO POWER	[SHEET-300] 96/128
	SEINE AUDIO I/F	[SHEET-301] 97/128
	AUDIO DAC	[SHEET-302] 98/128
	AUDIO PLL/DAC	[SHEET-303] 99/128
	AUDIO VTR OUT	[SHEET-304] .. 100/128
	AUDIO SP OUT	[SHEET-305] .. 101/128
	MPEG2 AUDIO TV IN	[SHEET-306] .. 102/128
	MPEG2 AUDIO ADC	[SHEET-307] .. 103/128
	MPEG2 AUDIO PLL	[SHEET-308] .. 104/128
	AUDIO DAC 0.1CH	[SHEET-309] .. 105/128
	AUDIO VTR OUT	[SHEET-310] .. 106/128
	MB86619	[SHEET-400] .. 107/128
	MB86619 (POWER)	[SHEET-401] .. 108/128
	CPLD XILINX	[SHEET-700] .. 109/128
	SLOWBUS	[SHEET-701] .. 110/128
	PODVPP	[SHEET-702] .. 111/128

SEIN FPD FULL NON LAN	POD I/F	[SHEET-703] .. 112/128
	PODVCC	[SHEET-704] .. 113/128
	DDR SDRAM I/F	[SHEET-901] .. 114/128
	DDR 1	[SHEET-902] .. 115/128
	DDR 2	[SHEET-903] .. 116/128
	DDR 3	[SHEET-904] .. 117/128
	DDR 4	[SHEET-905] .. 118/128
	DDR POWER	[SHEET-906] .. 119/128
	TERMINATOR	[SHEET-907] .. 120/128
	VCXO	[SHEET-941] .. 121/128
	SEINE VDD/VSS	[SHEET-950] .. 122/128
	SIGNAL CONNECTOR	[SHEET-960] .. 123/128
	POWER CONNECTOR	[SHEET-961] .. 124/128
	Signal filter	[SHEET-964] .. 125/128
D-TUNER	TUNER CONNECTOR(TUNER)	[SHEET-104] .. 126/128
	OOB FDC	[SHEET-105] .. 127/128
	FAT TUNER	[SHEET-106] .. 128/128

VIDEO OUTPUT (also for recording)

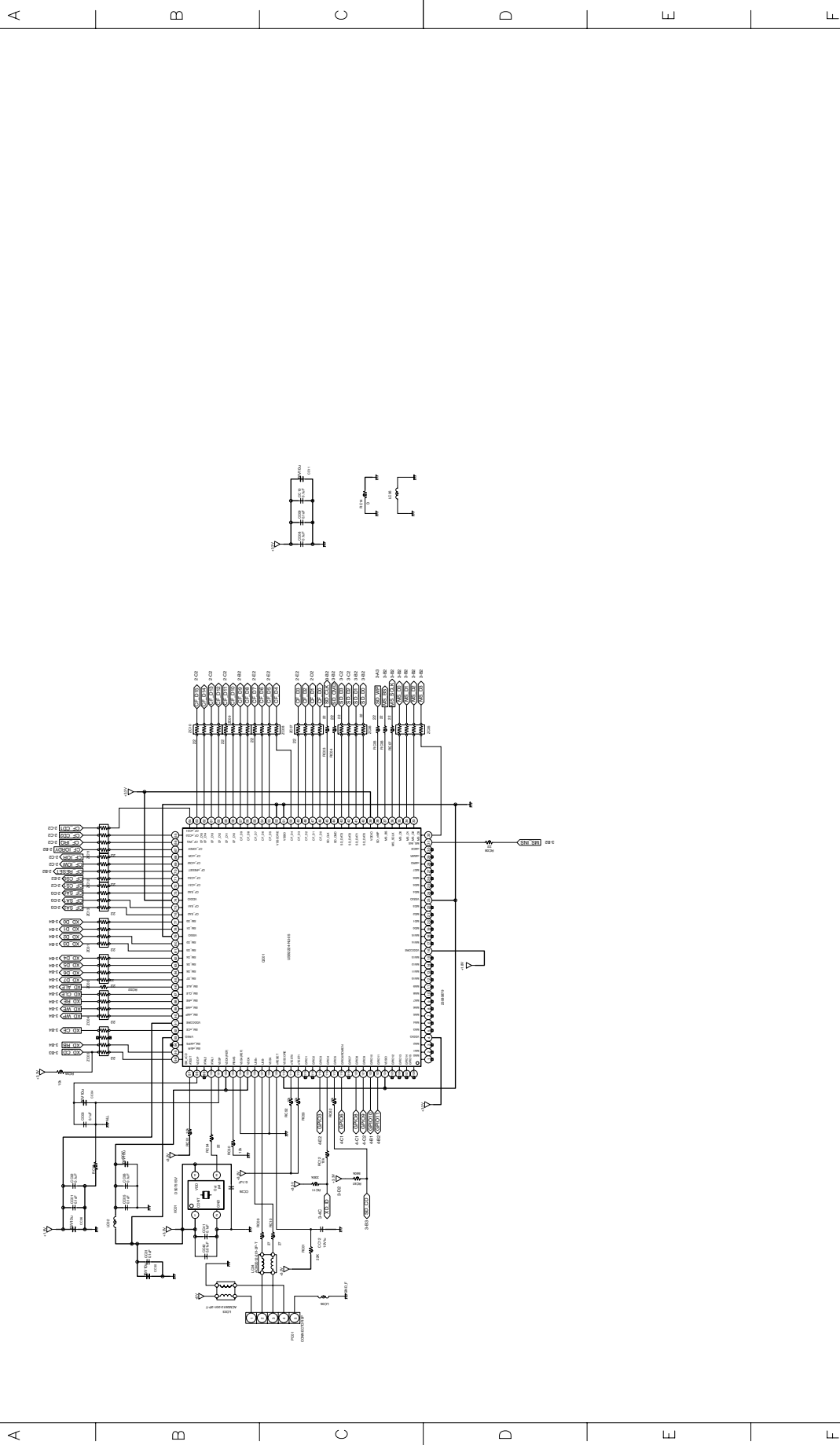
TV set MODE	MONITOR OUT	(REC OUT)
analog TV	O	O
digital TV	O	O
VIDEO1 (V/S)	O	O
VIDEO2 (V/S)	O	X
VIDEO3 (V/S)	O	X
CS1	X	X
CS2	X	X
PC in	X	X
HDMI	X	X

x -- picture mute: This TV does not provide.

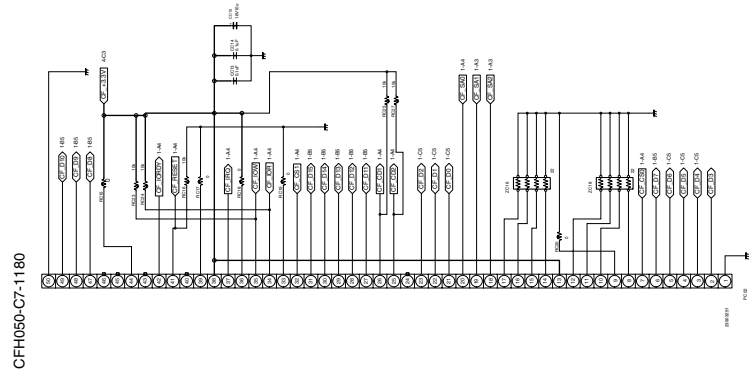
The diagram illustrates the internal architecture of a television system. It shows the flow of video and audio signals from various sources (Digital Tuner, External Inputs, PC, etc.) through processing blocks (MPEG Enc., Audio ADC, Color Dec., VBI Data Processor, Video Decoder, Analog Front End, MUX, DCDi MADI Scaling, 2nd Channel Process, BEP, OSD) to the final output (Panel). The system also includes a Micro-processor for control and various input/output ports (HDMI, PC in, IR-OUT, etc.).

x -- picture mute: This TV does not provide.

1 2 3 4 5 6 7 8



42/50HP95
MULTI CARD
[SHEET-1/4]





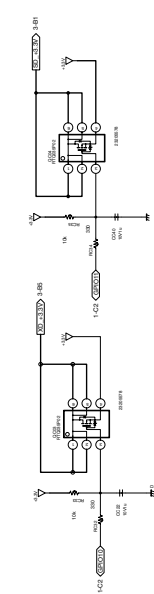
1 2 3 4 5 6 7 8

A

A

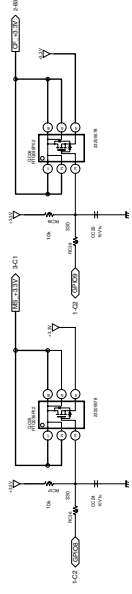
B

B



C

C

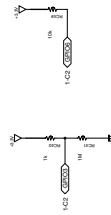


D

D

E

E



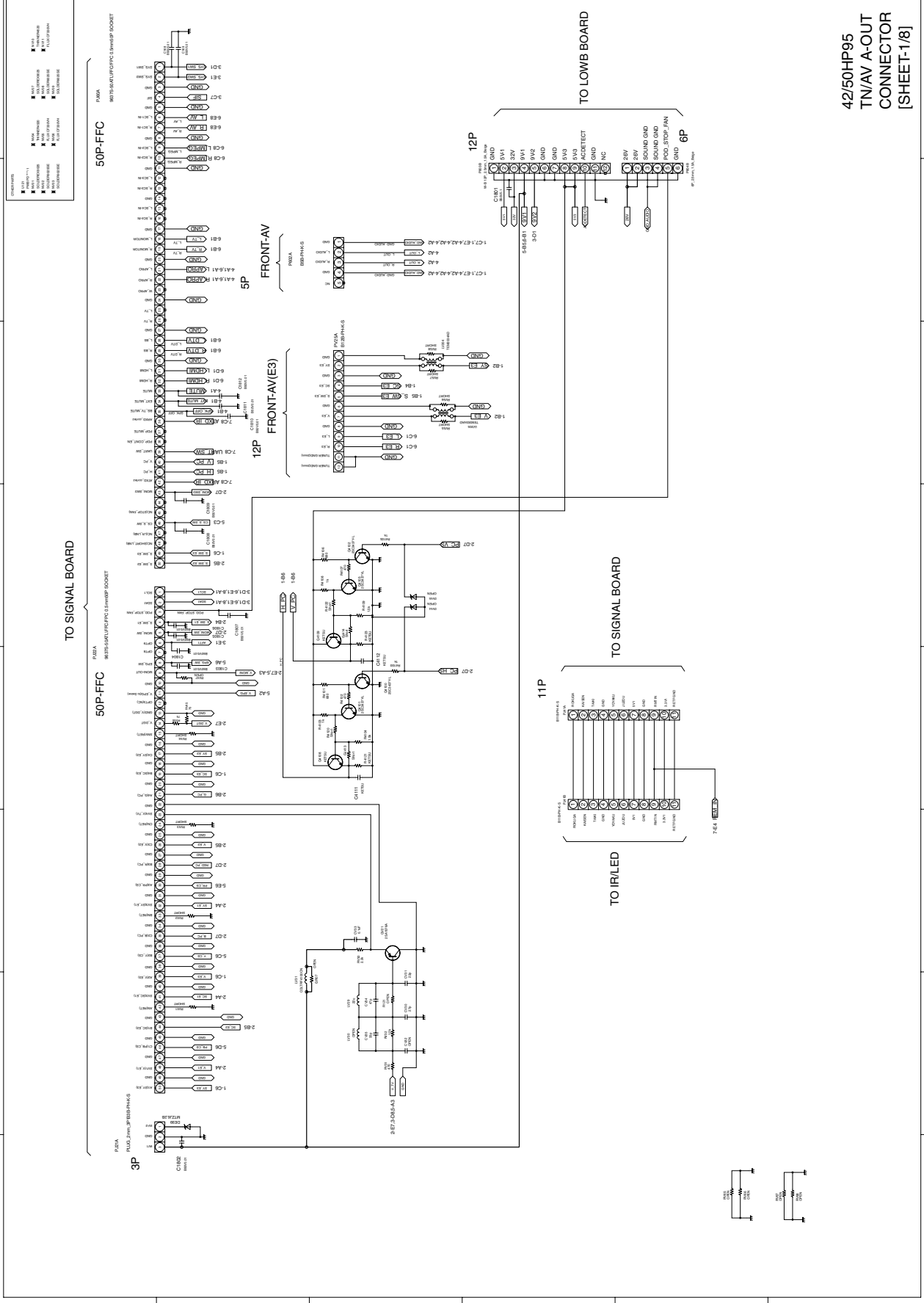
F

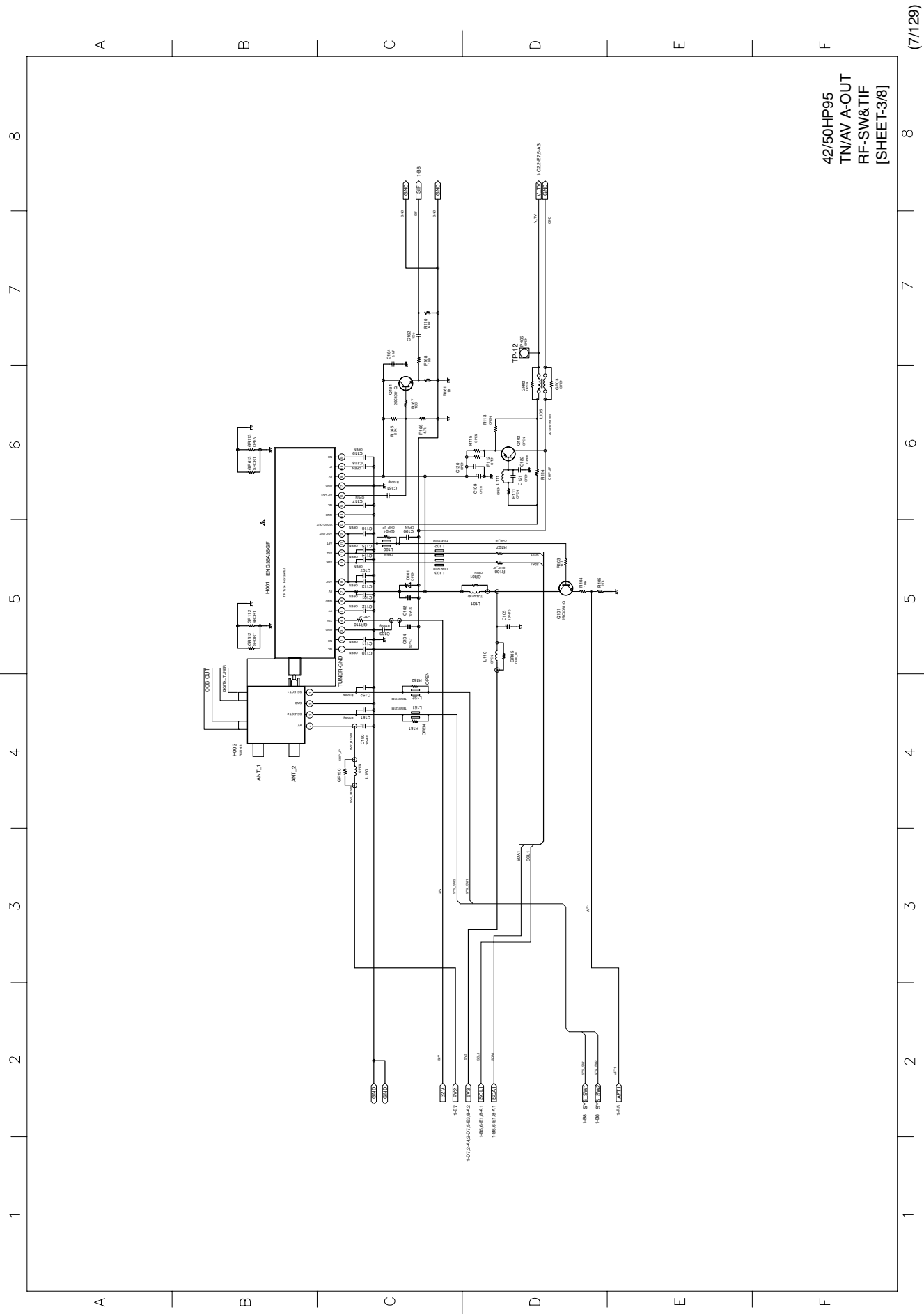
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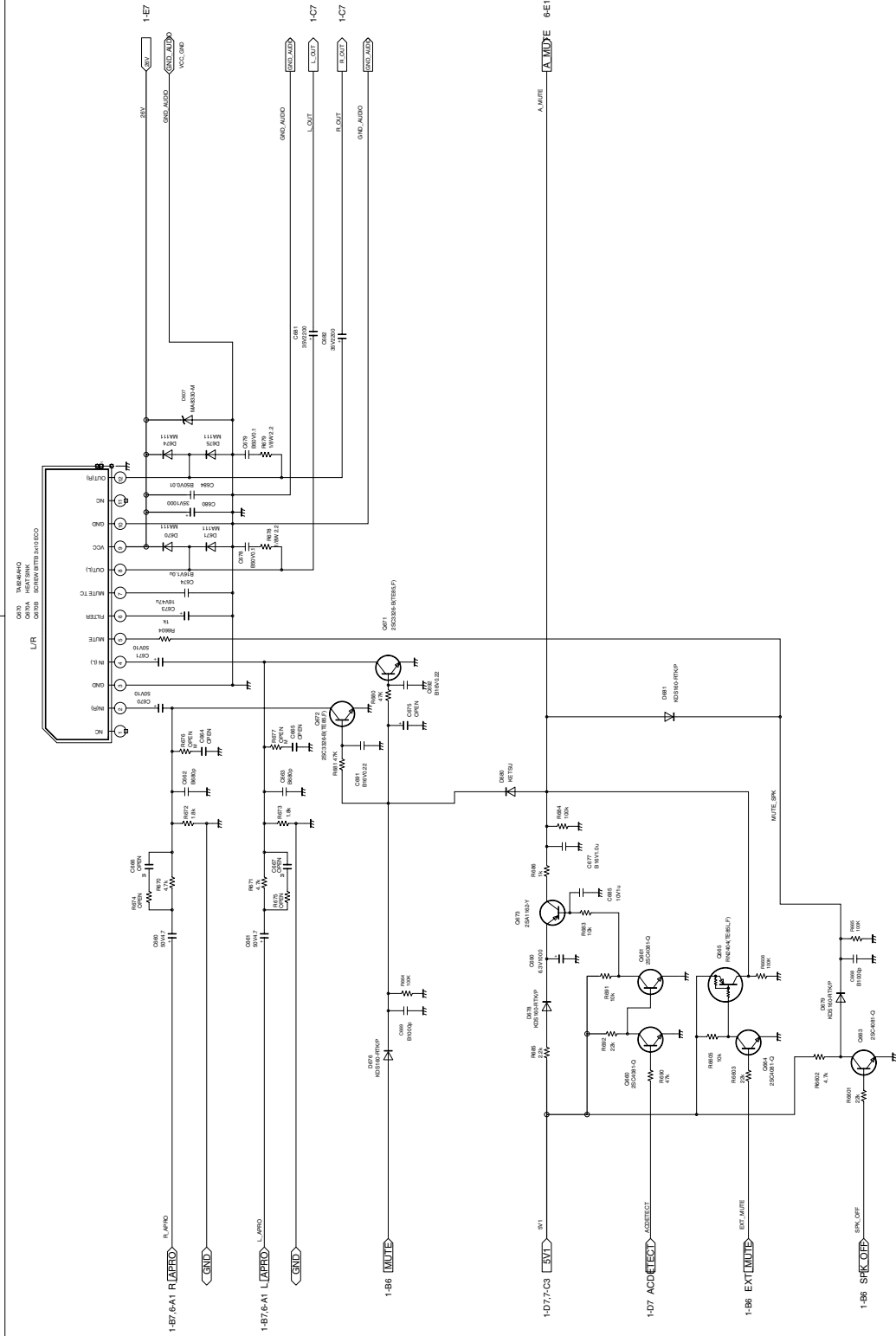
42/50HP95
MULTI CARD
[SHEET-4/4]

1 2 3 4 5 6 7 8

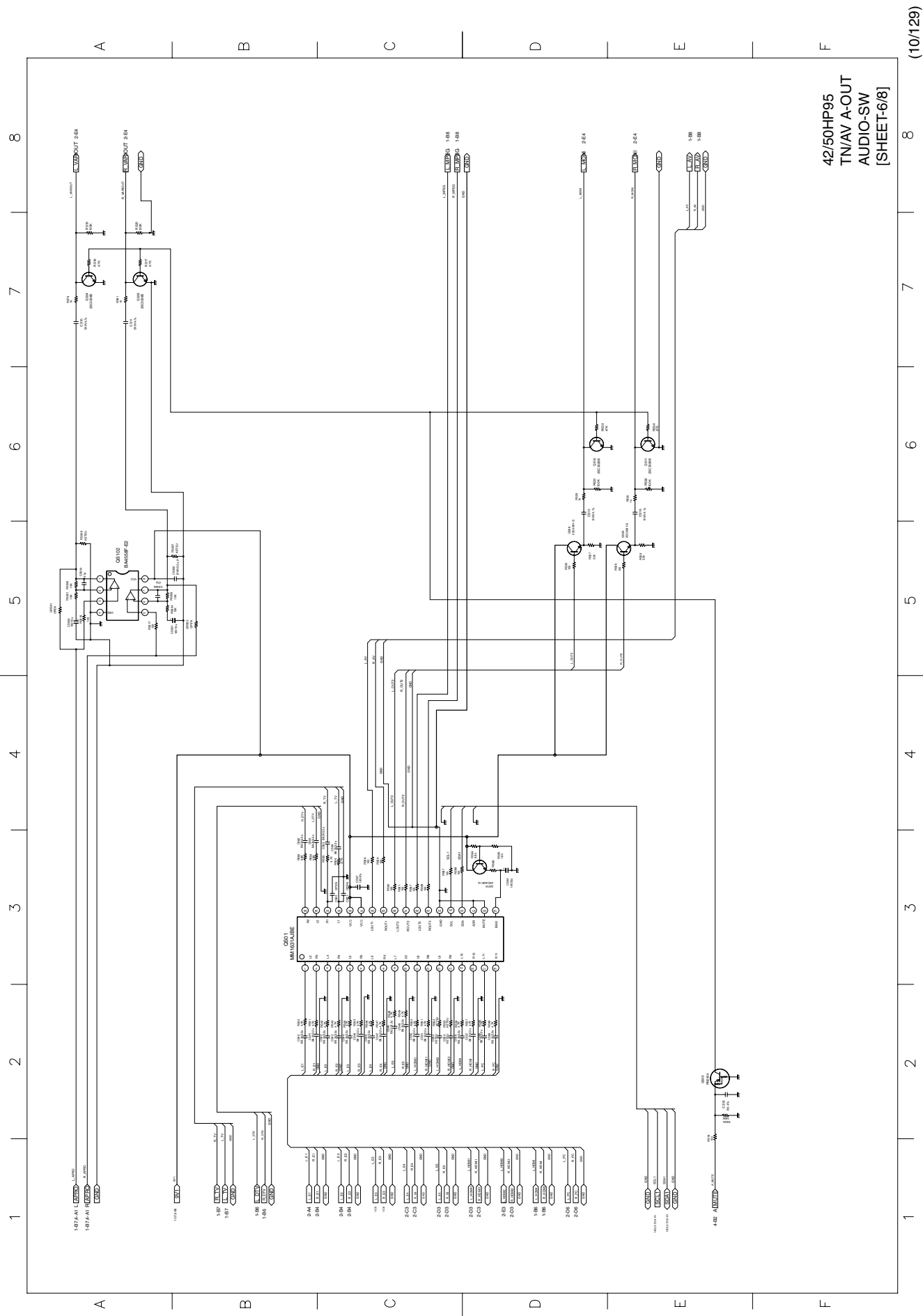
(4/129)



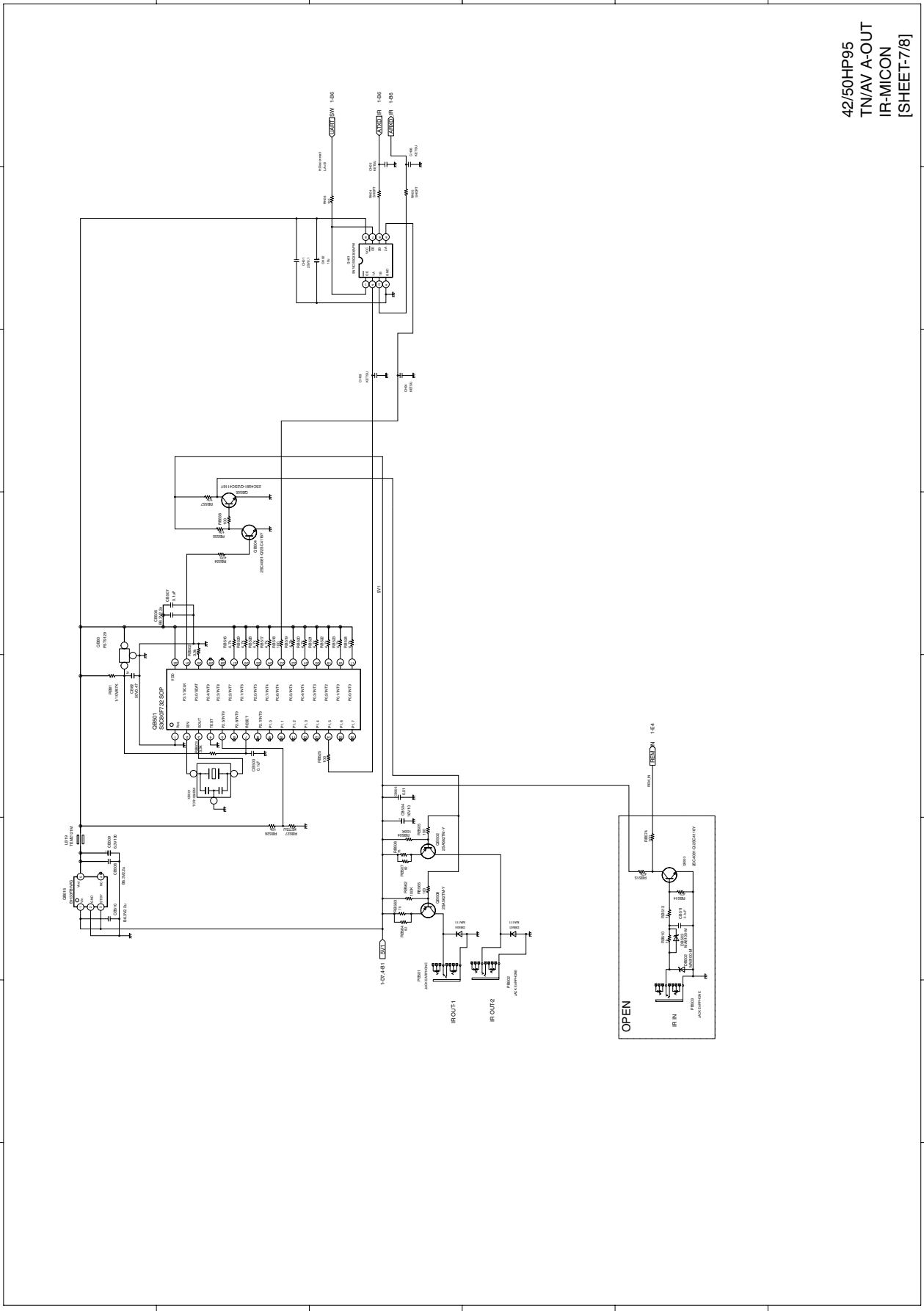


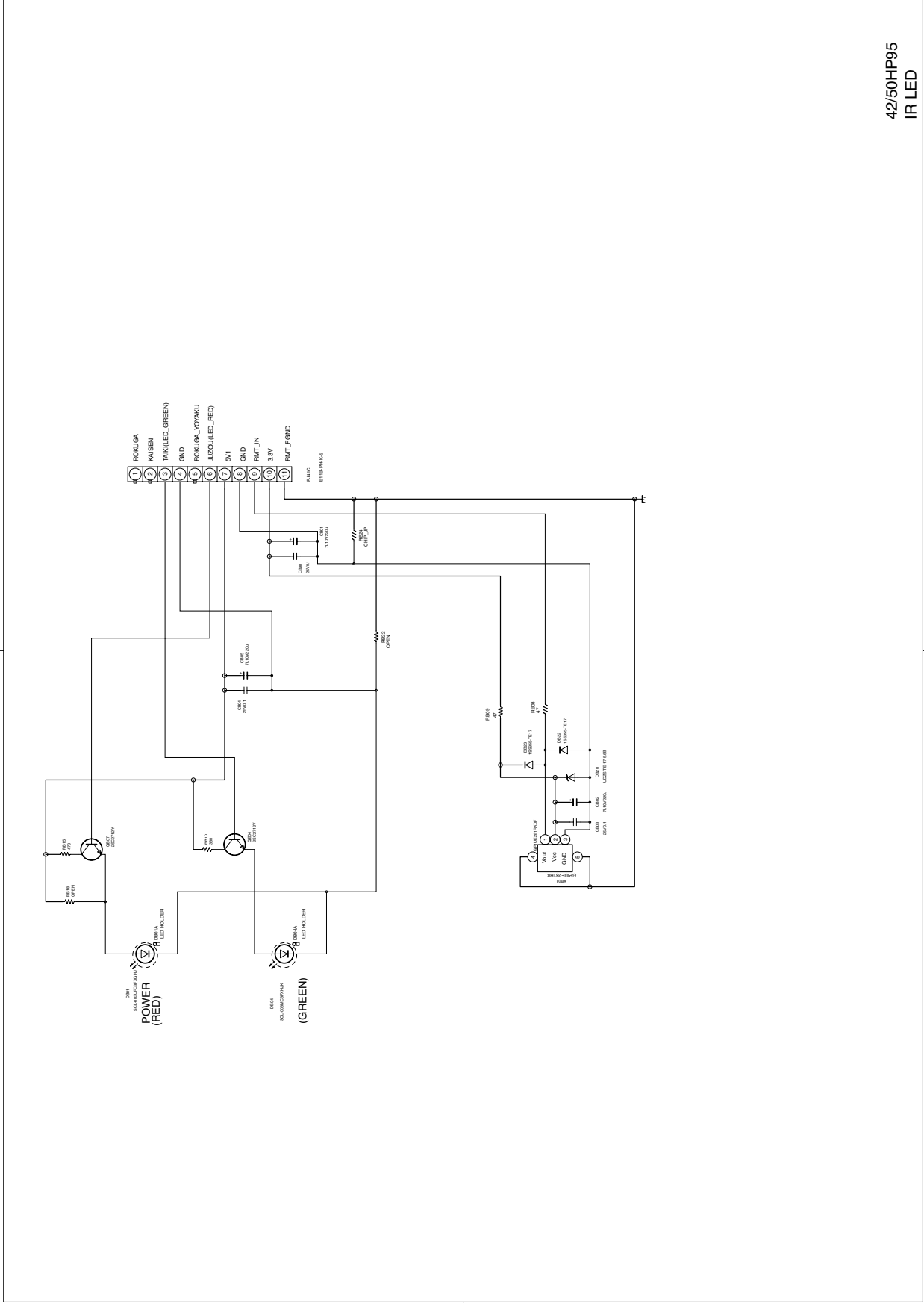




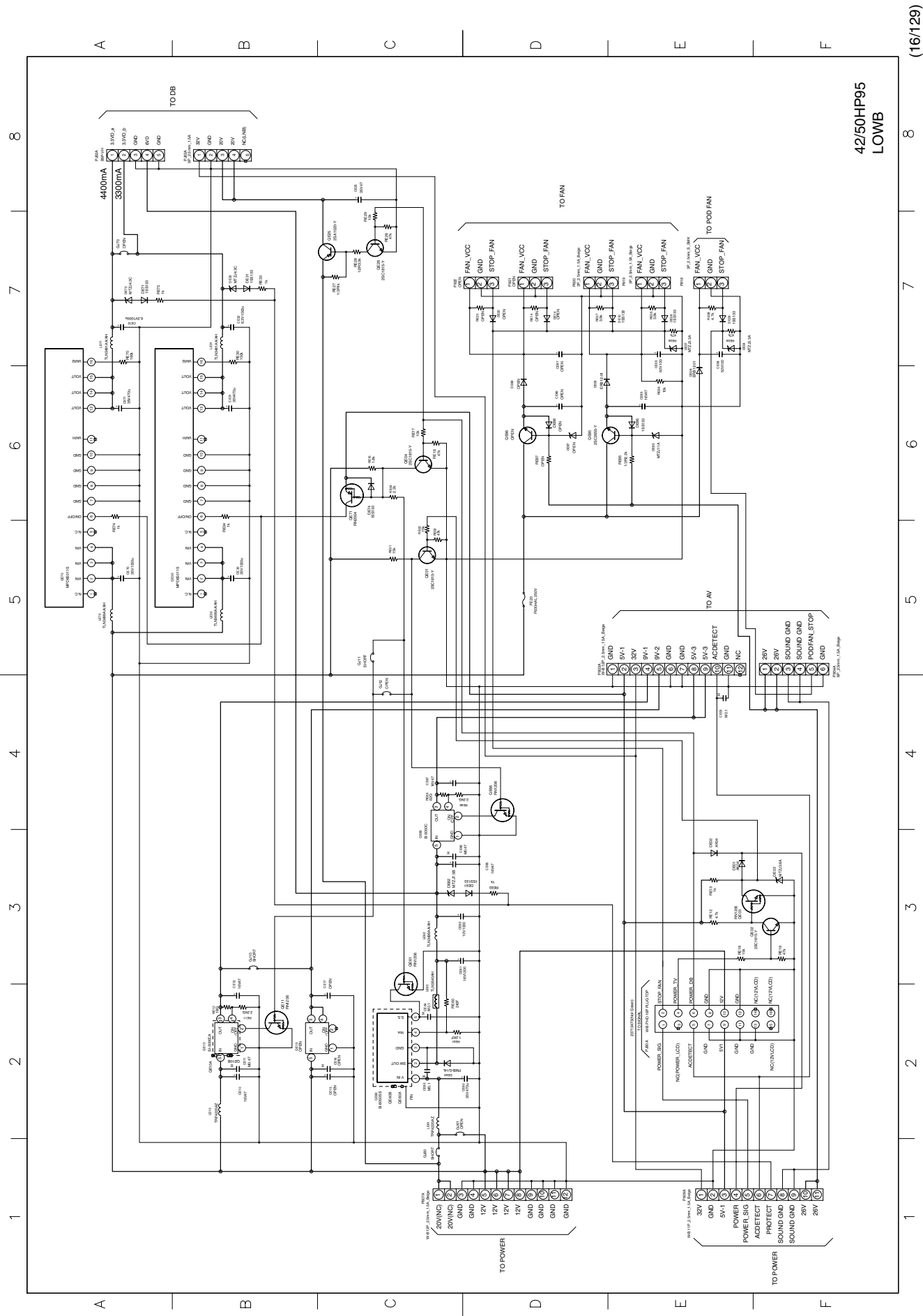


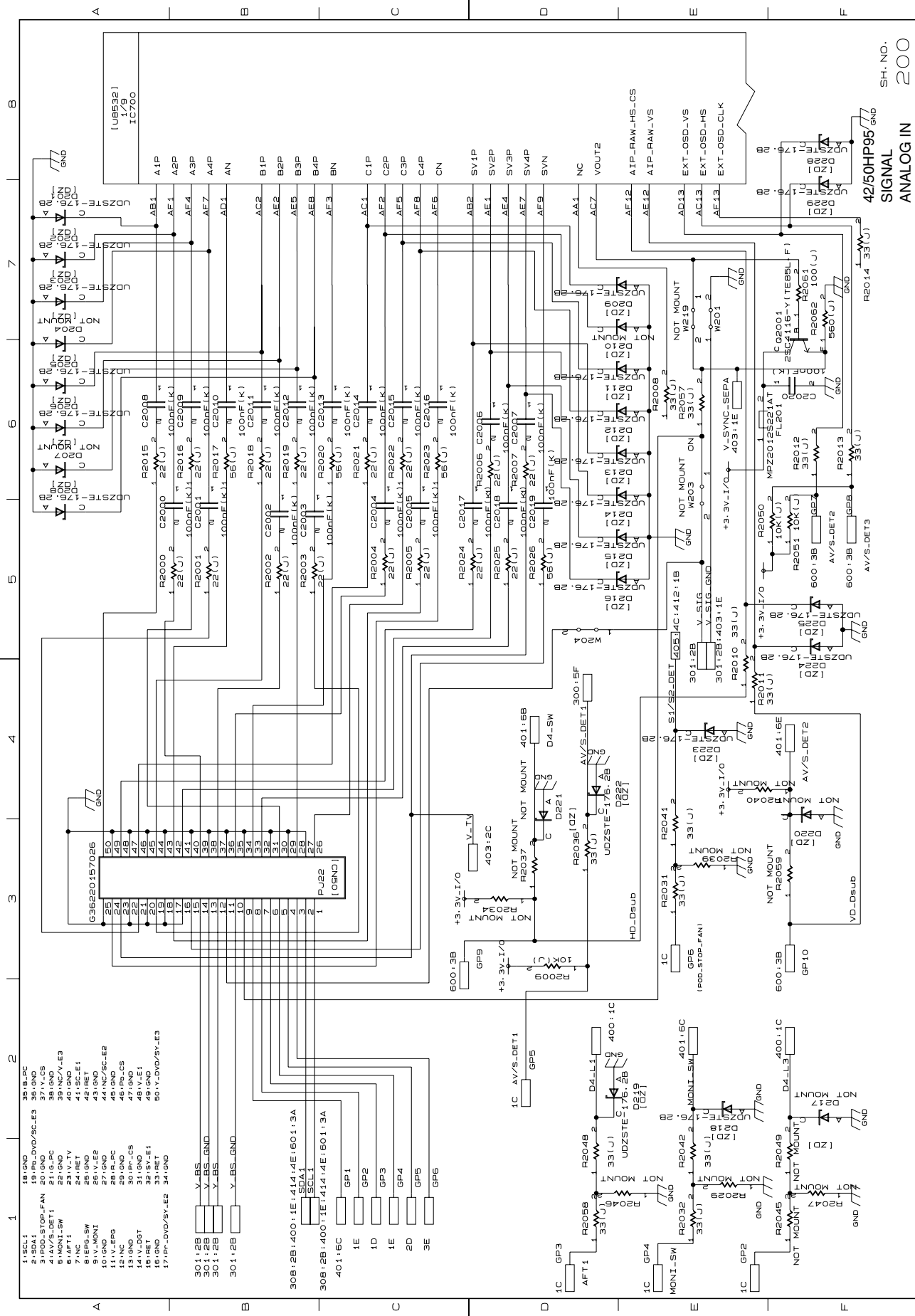
1 2 3 4 5 6 7 8





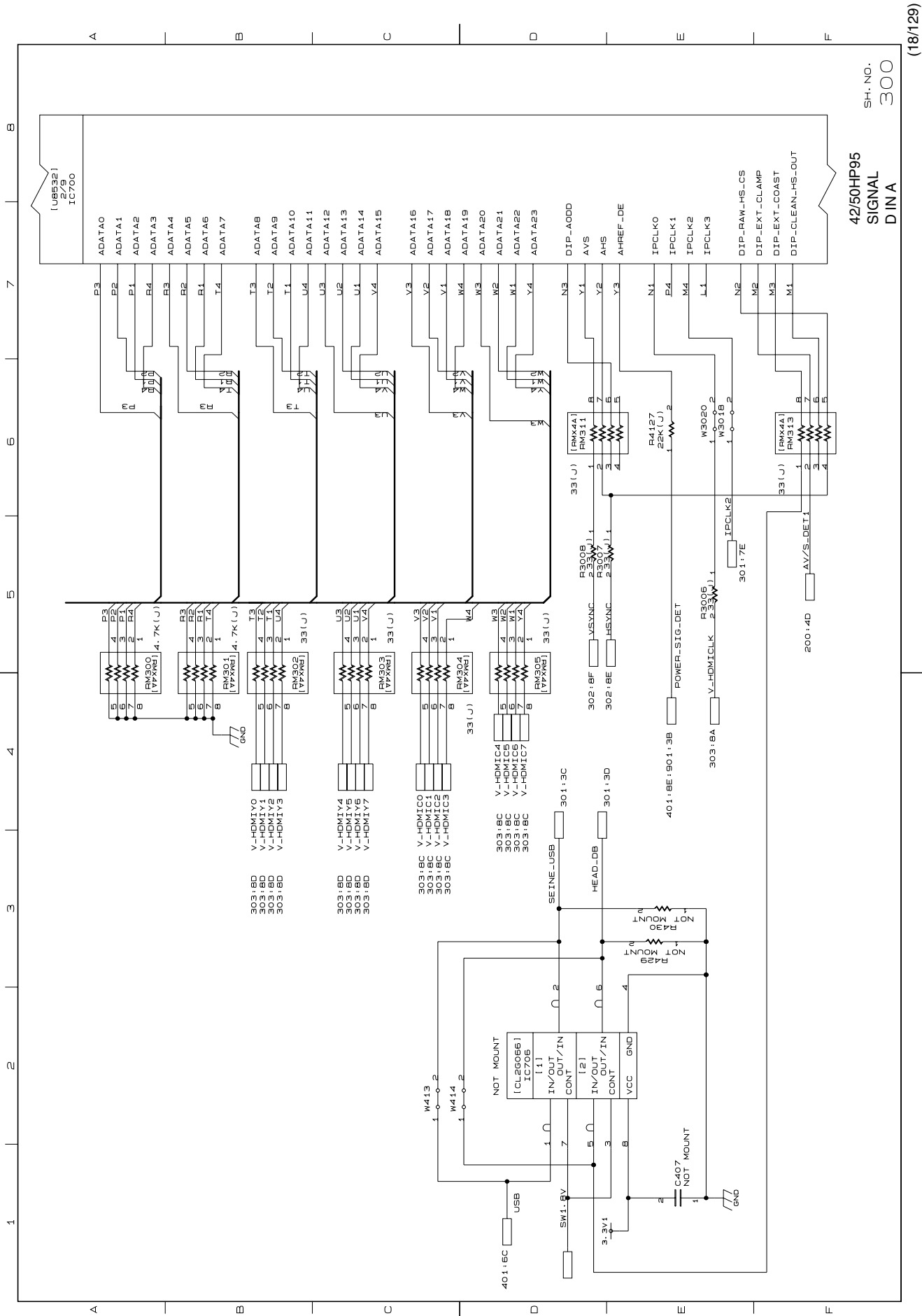
42/50HP95
IR LED



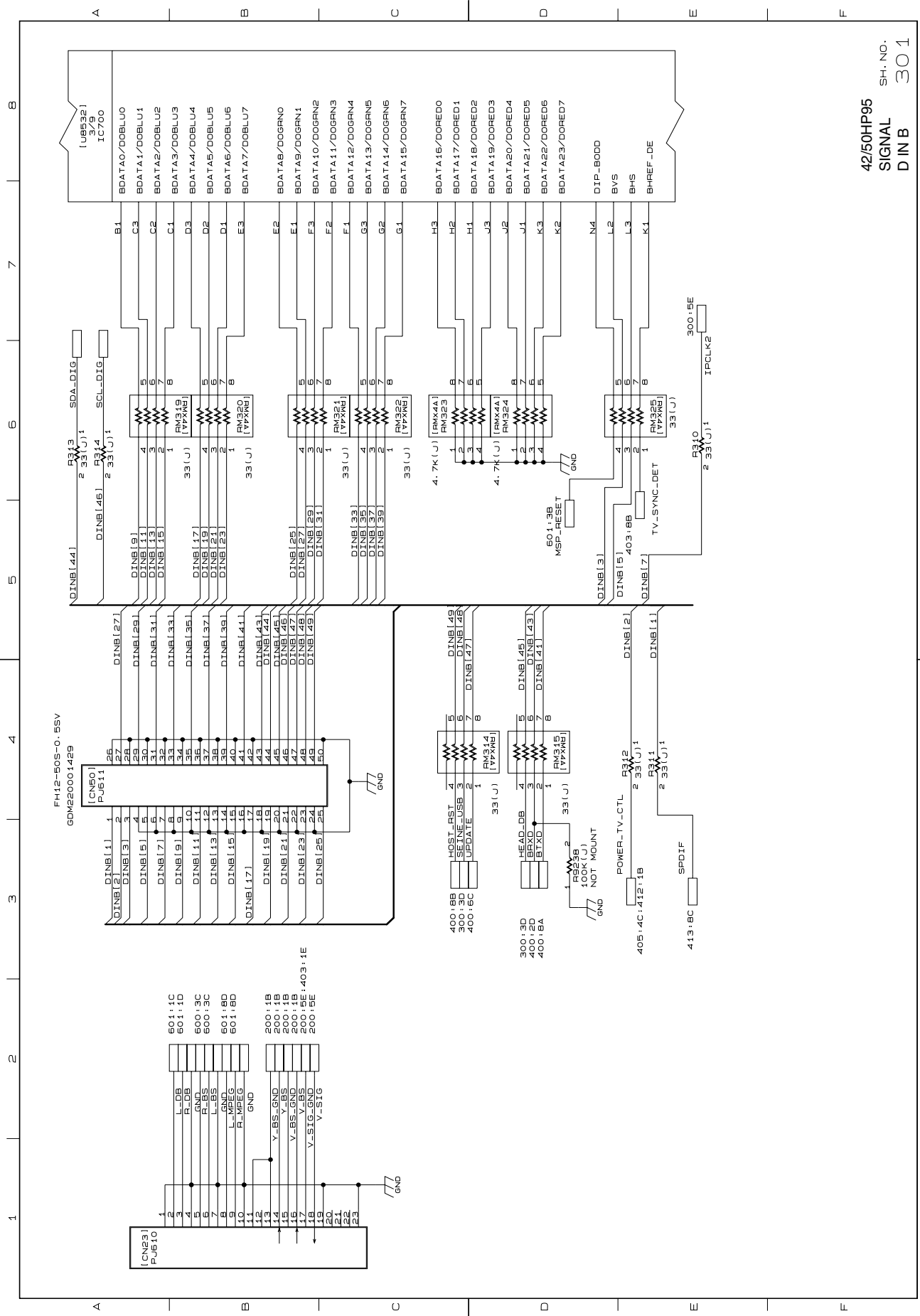


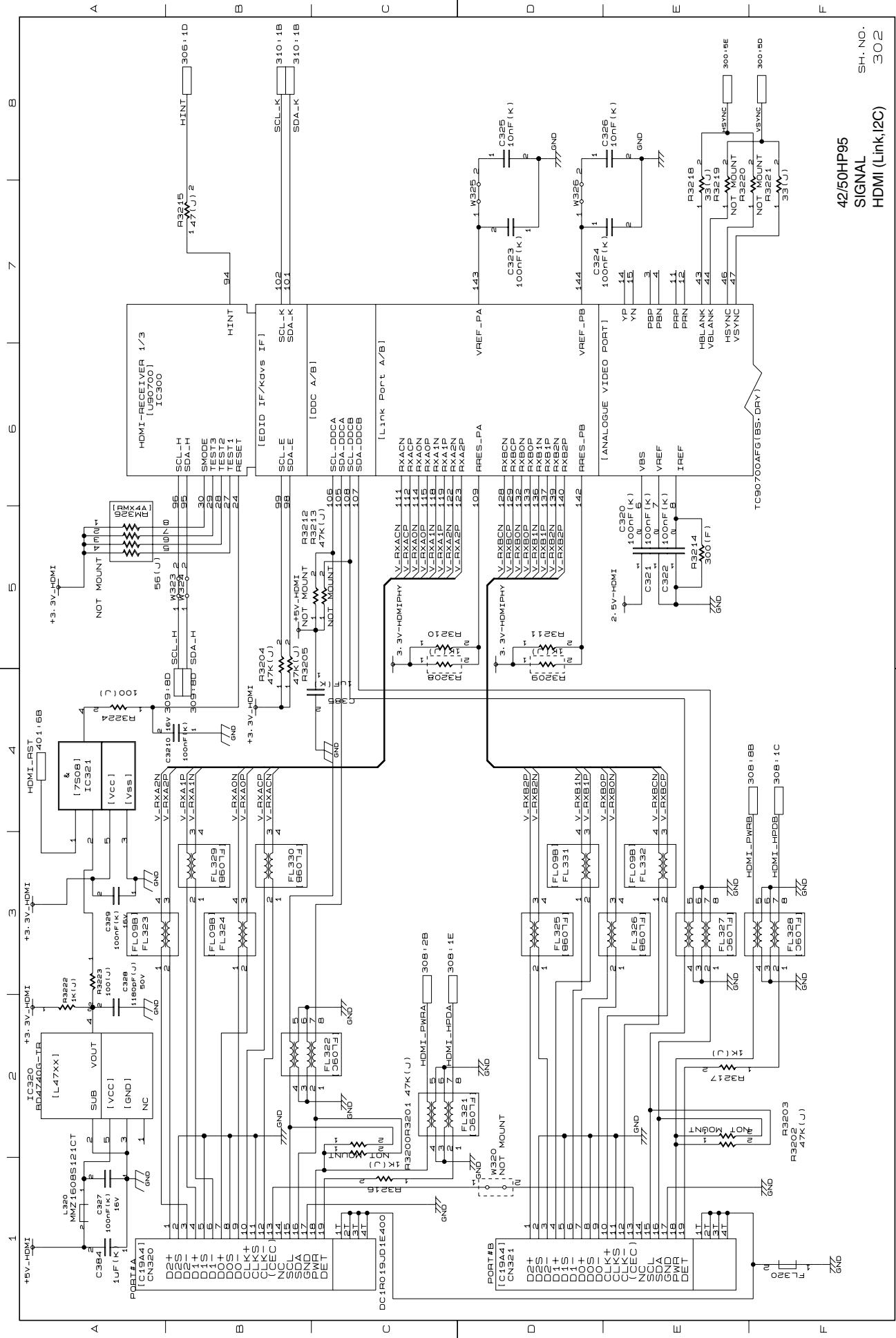
SH. NO. 200
SIGNAL ANALOG IN

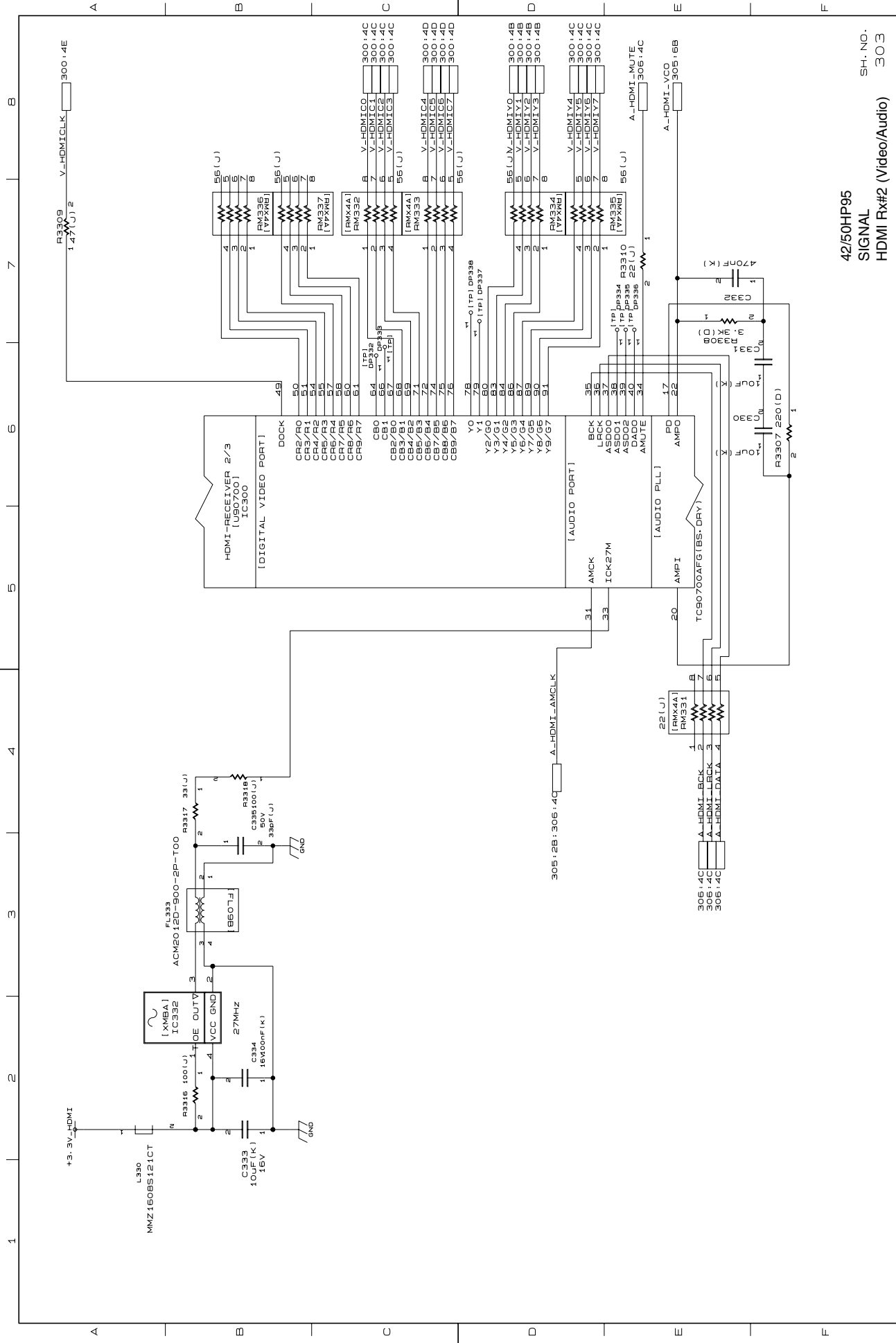
(17/129)

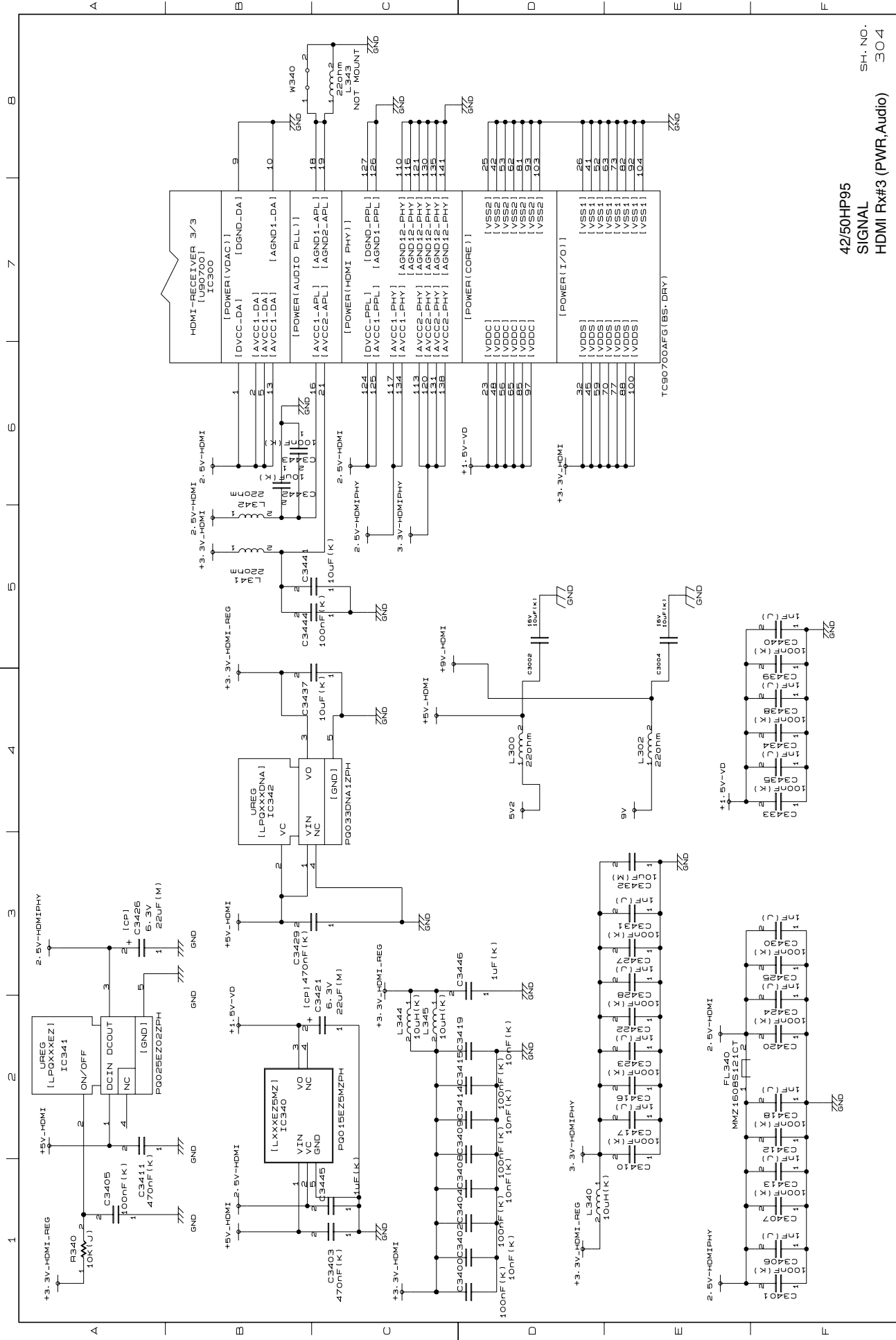


SH. NO. 300
42/50HP95
SIGNAL
DINA





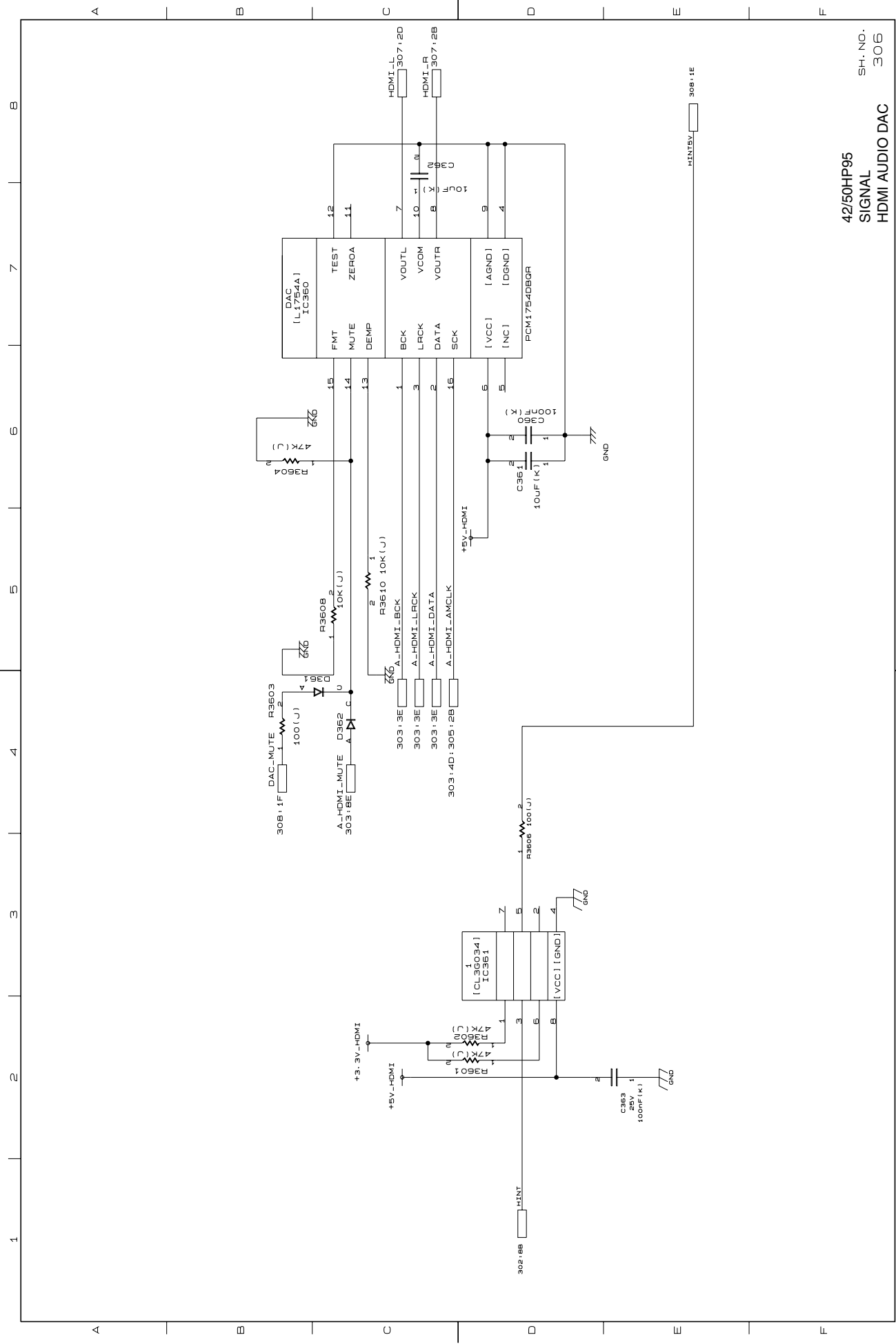


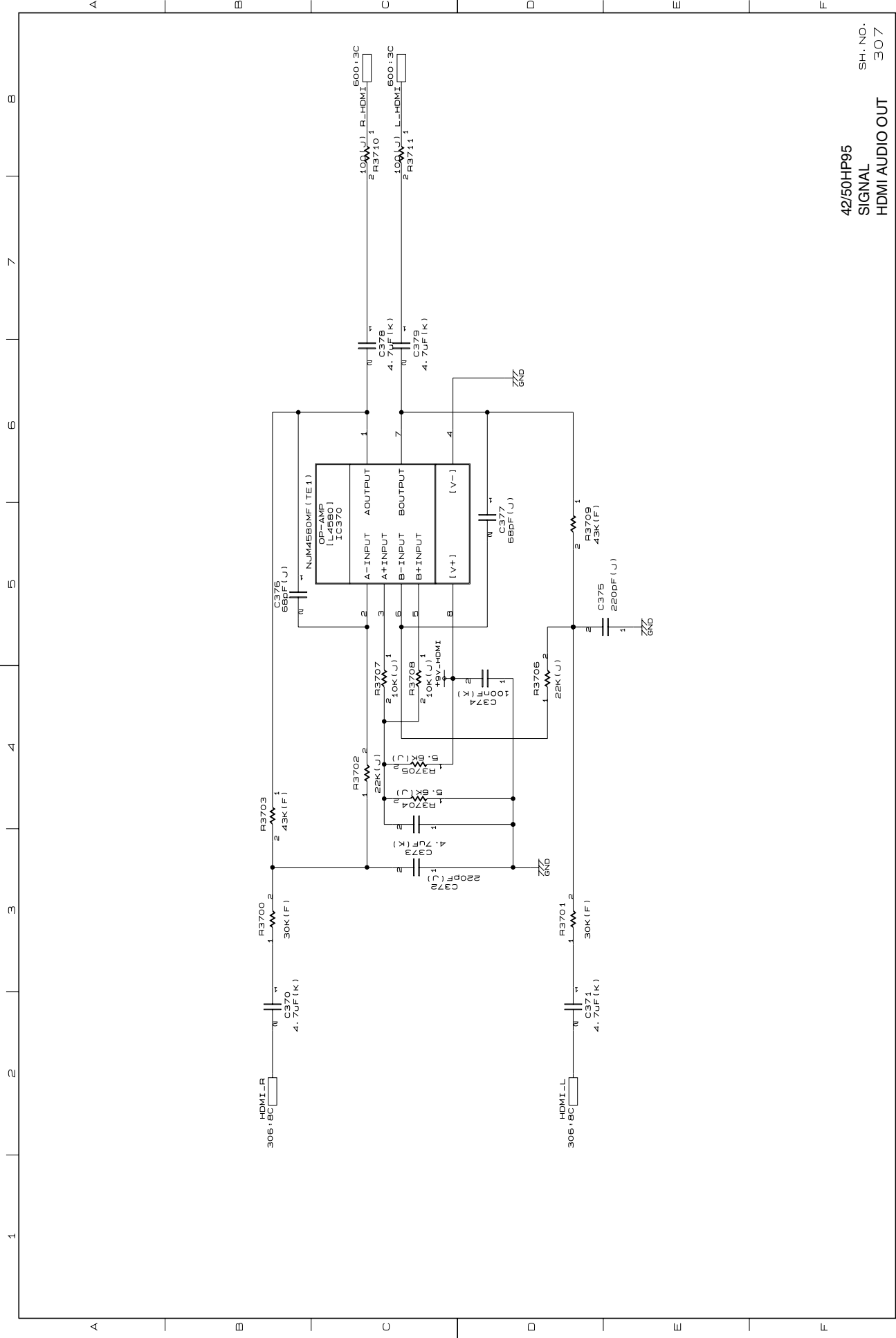


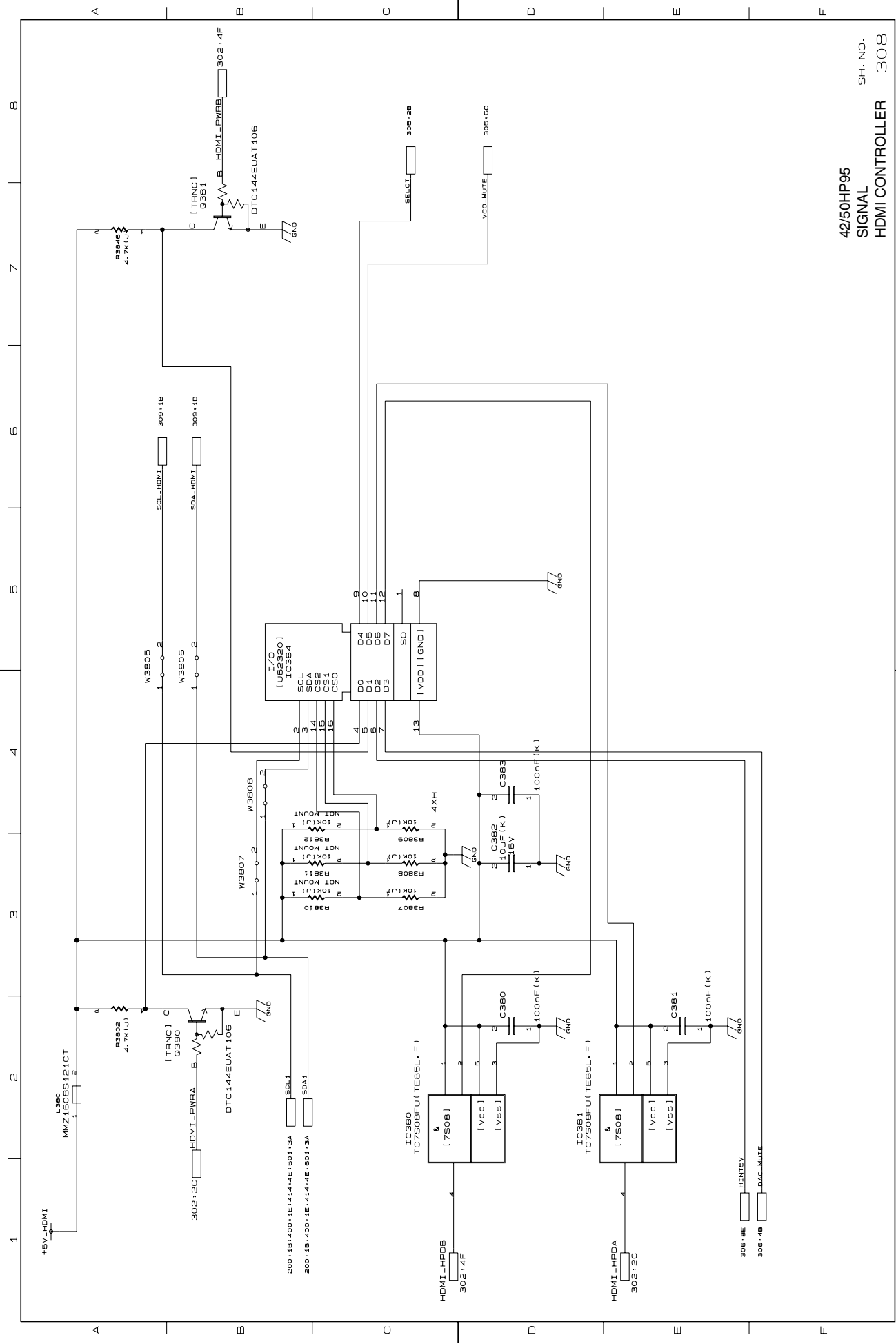
42/50HP95
SIGNAL
HDMI Rx#3 (PWR, Audio)

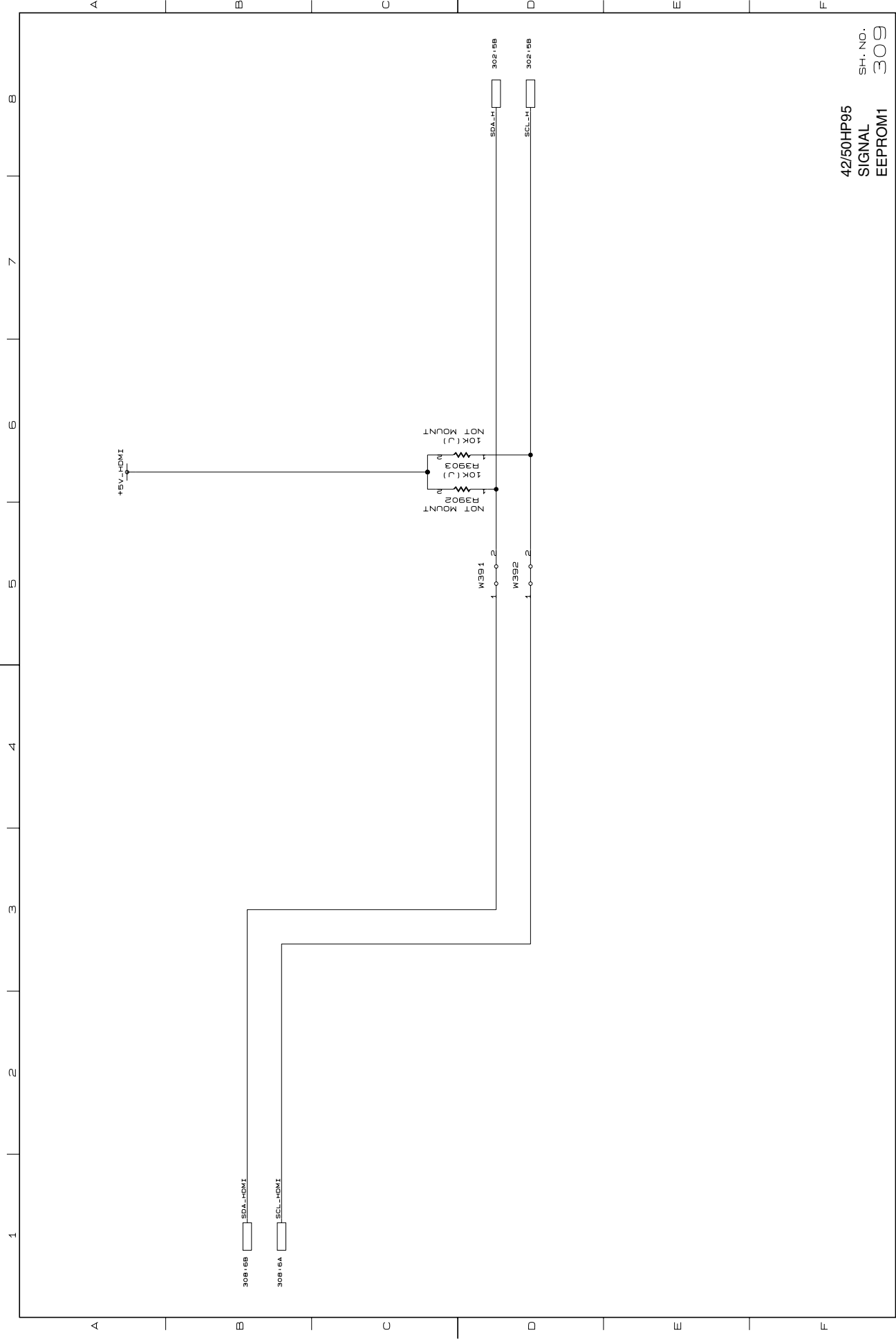
SH. NO.
304

(22/129)



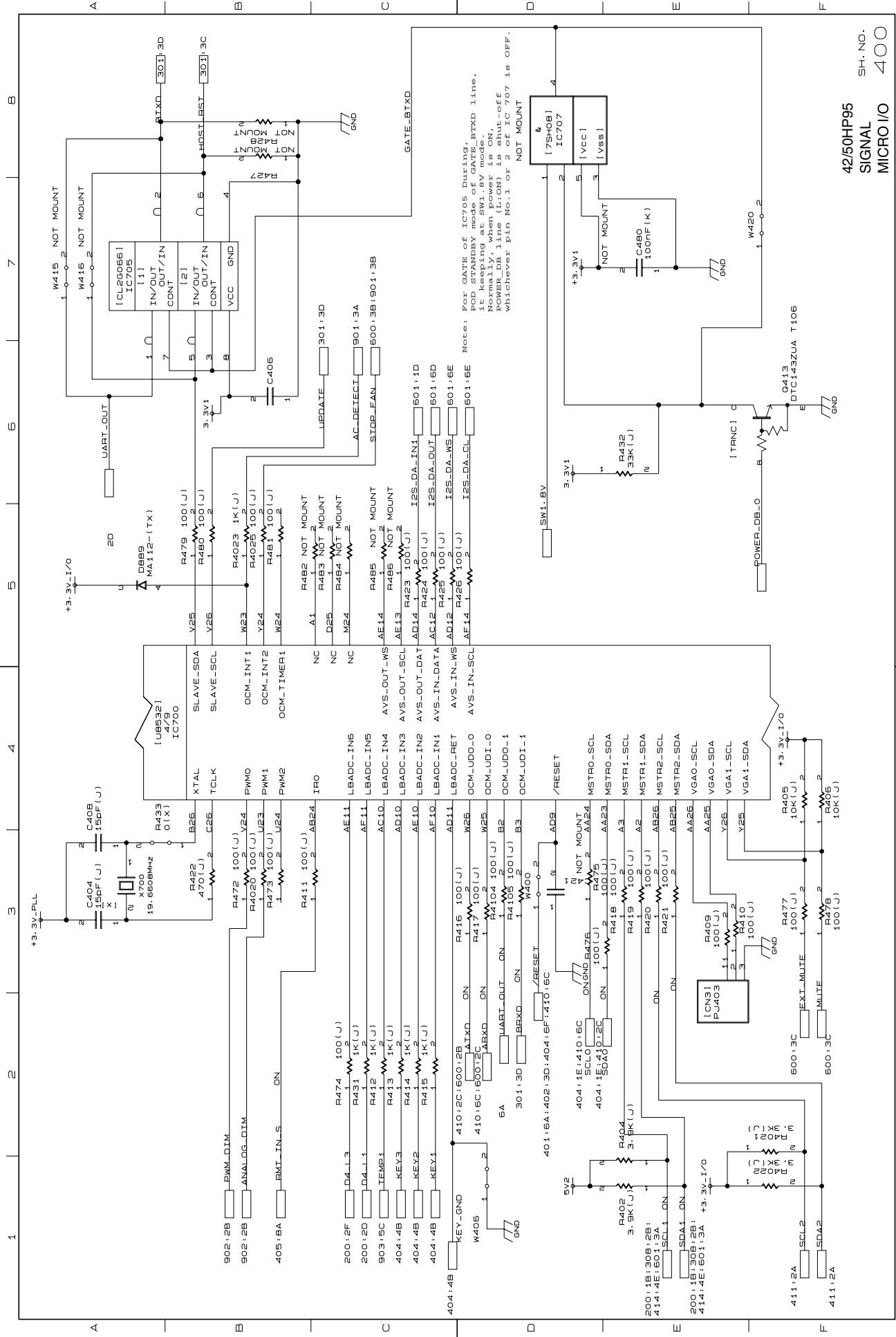


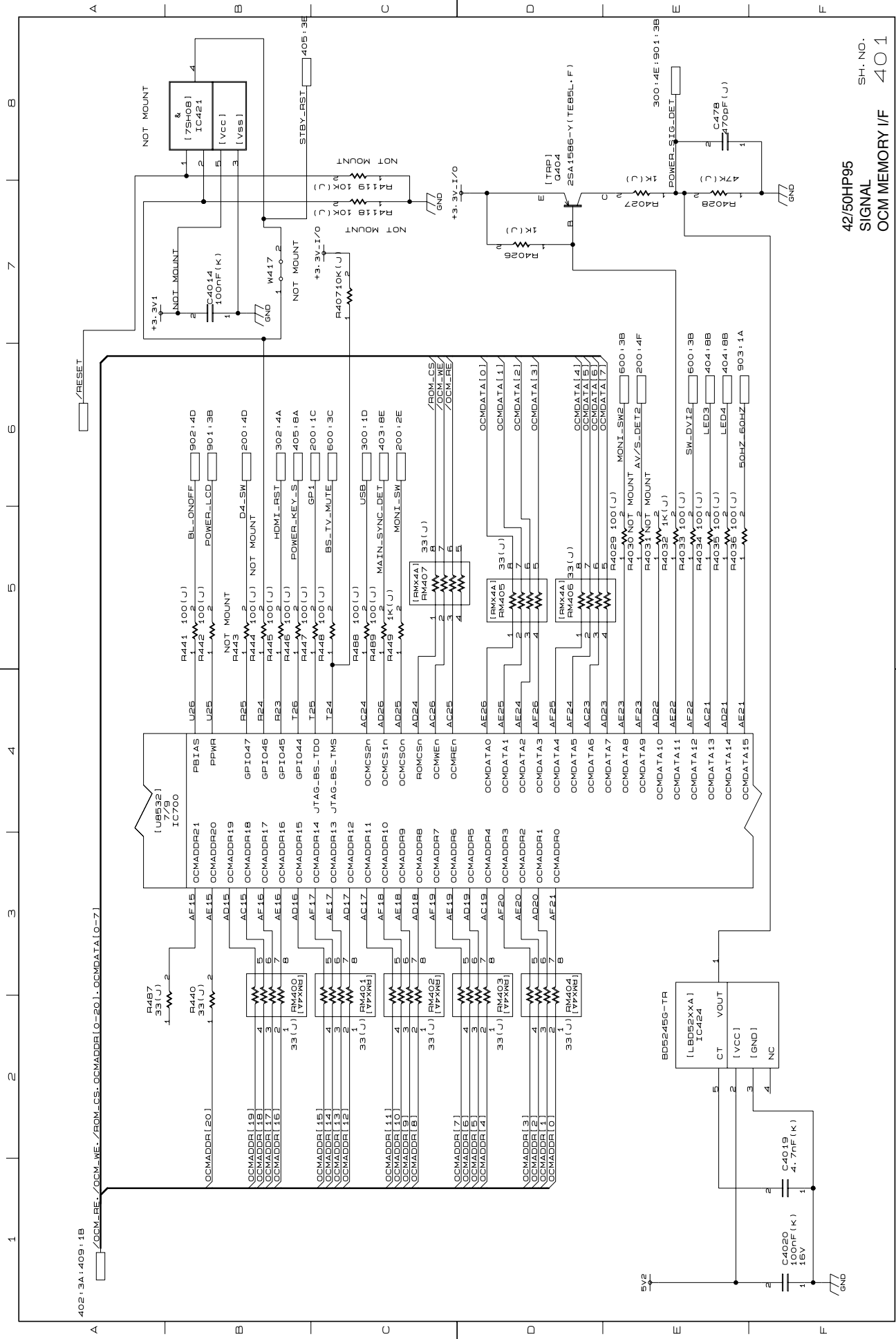


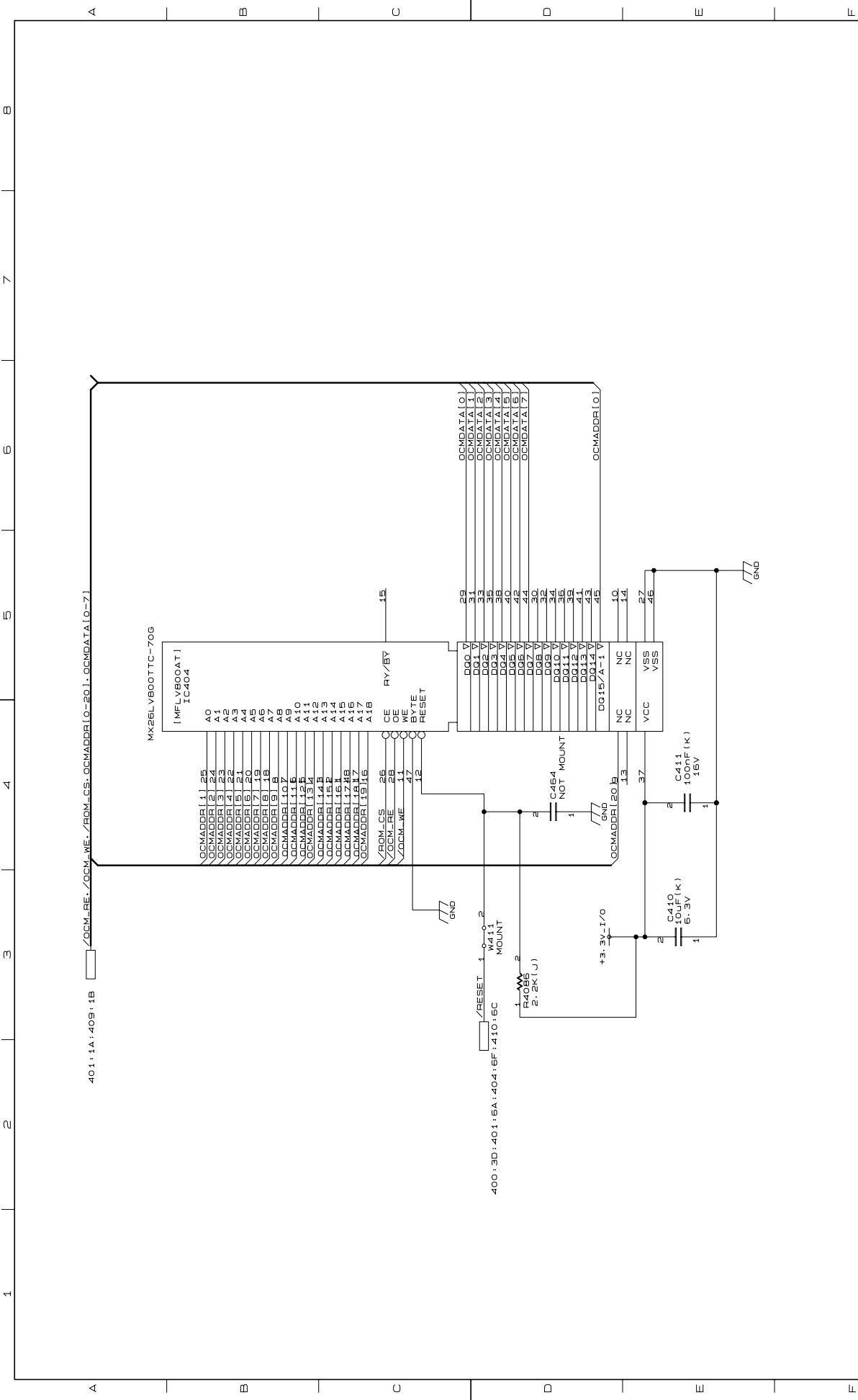


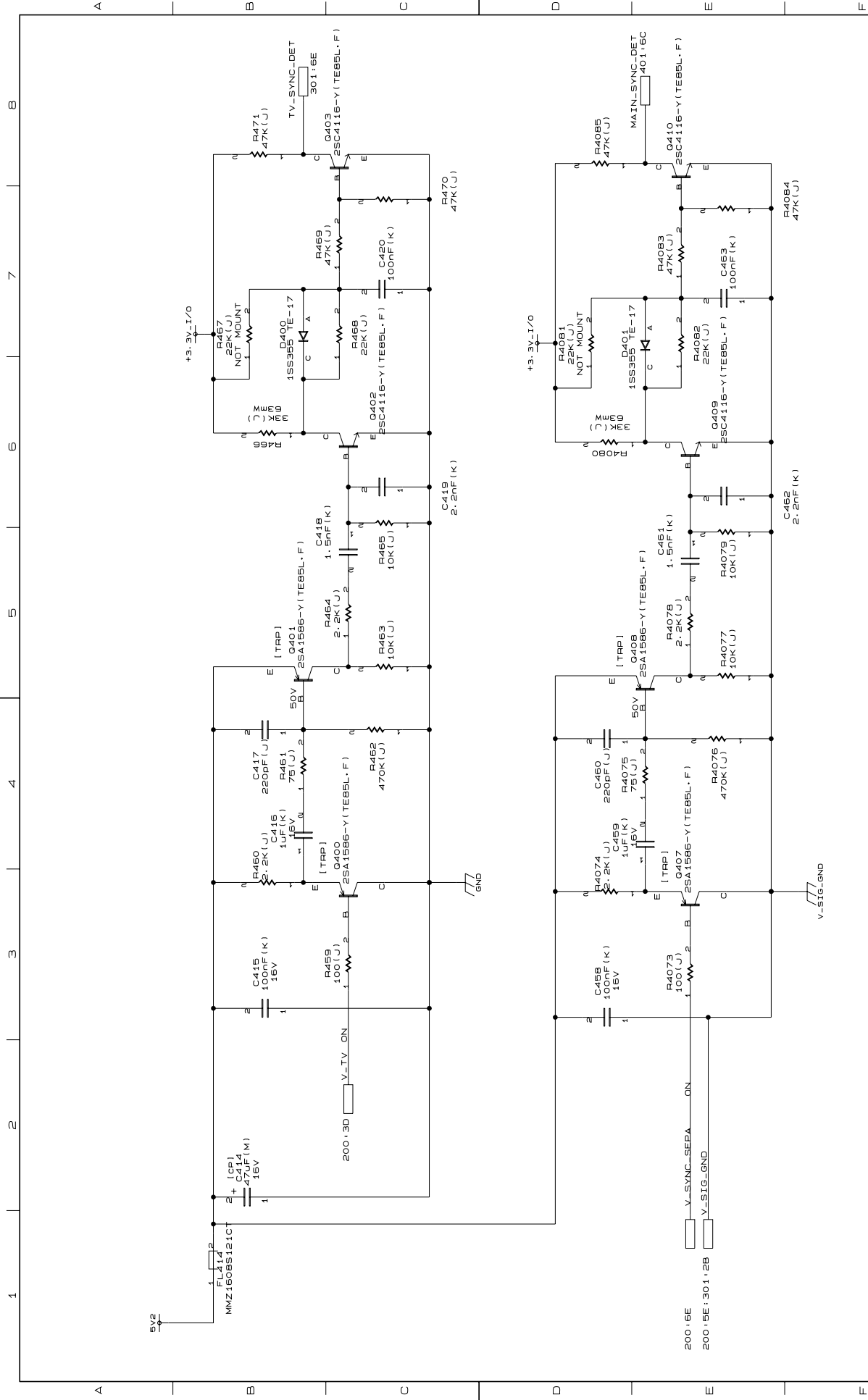
42/50HP95
SIGNAL
EEPROM1

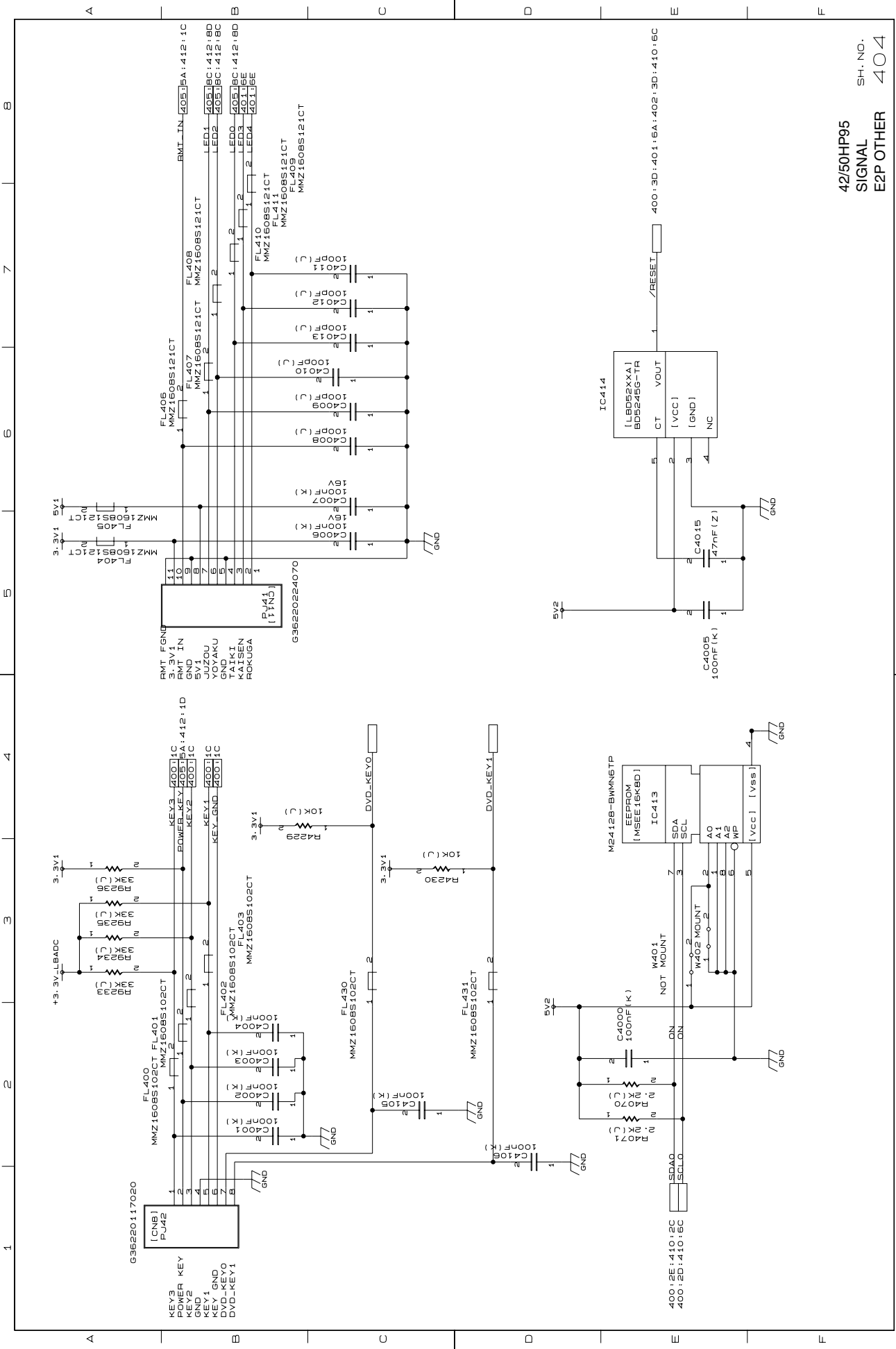
SH. NO.
309



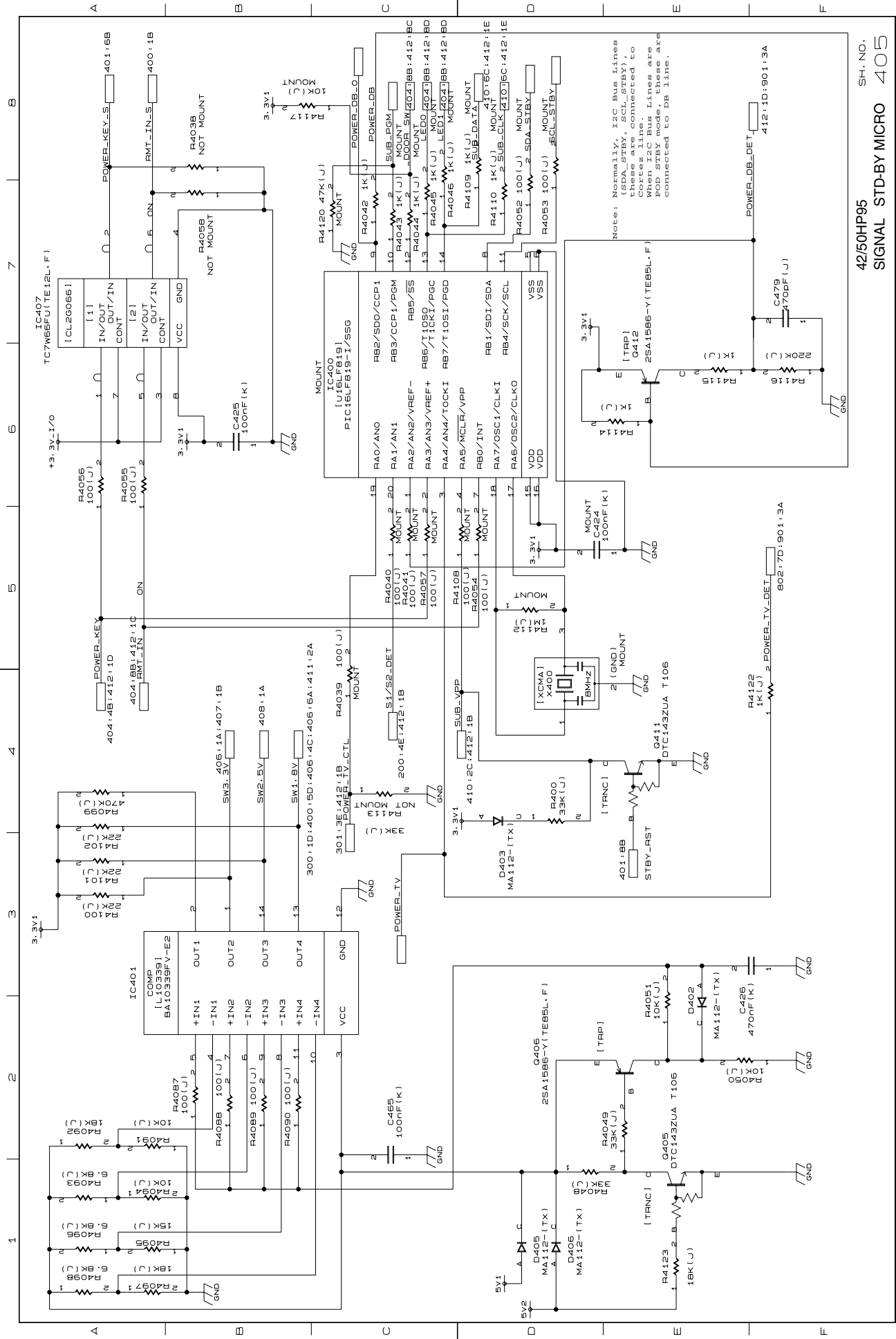


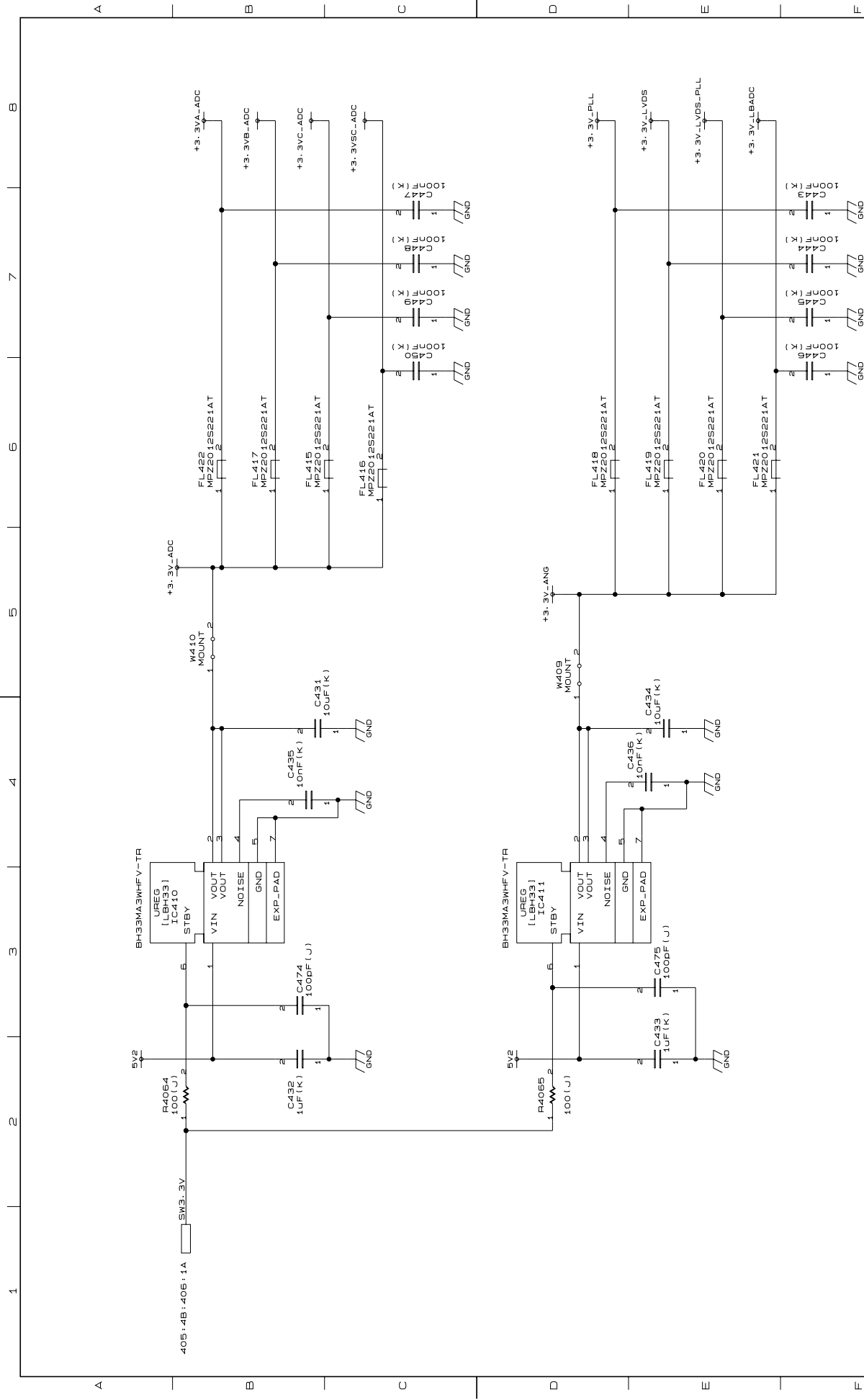


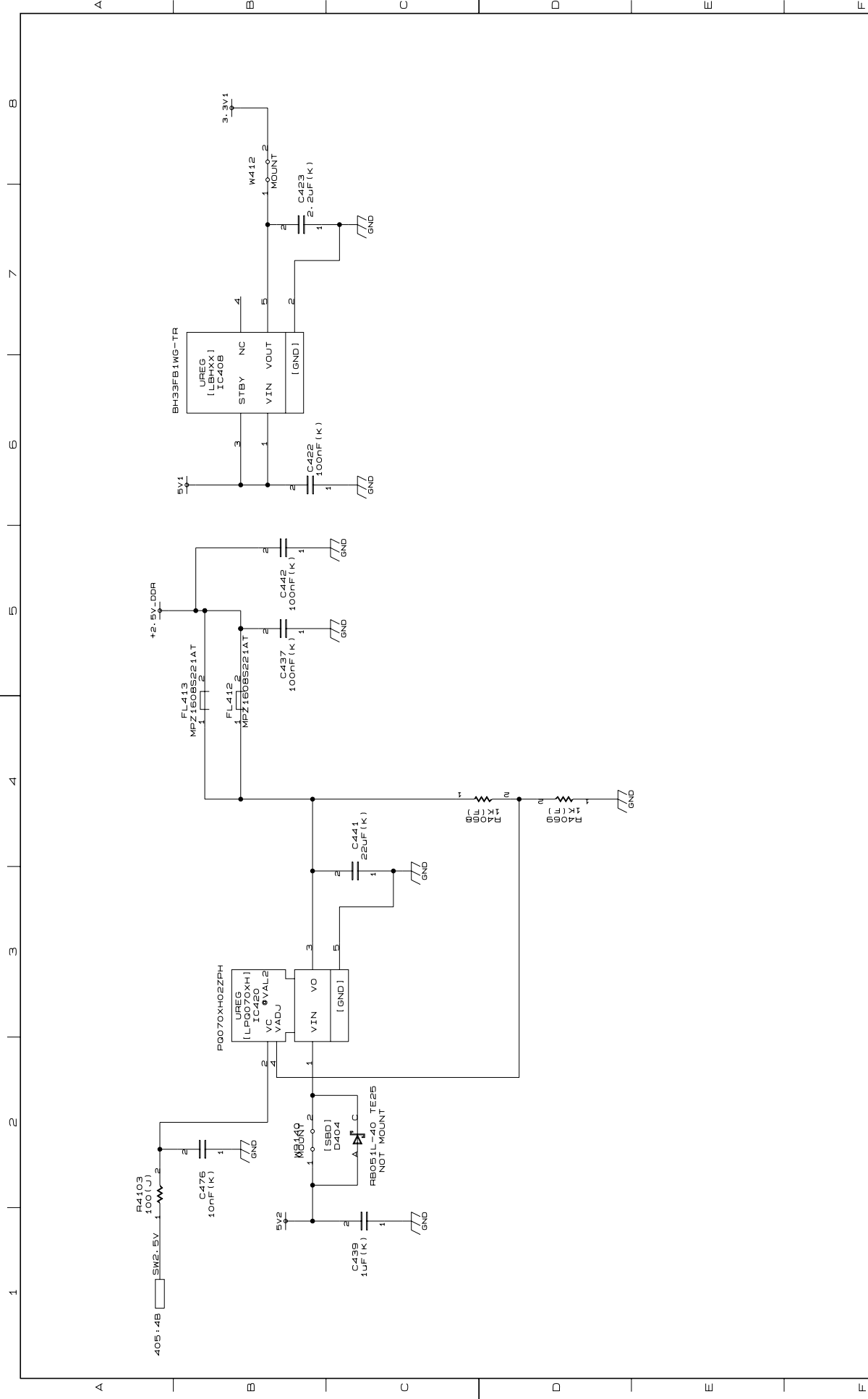




42/50HP95
SIGNAL SH. NO.
E2P OTHER 404

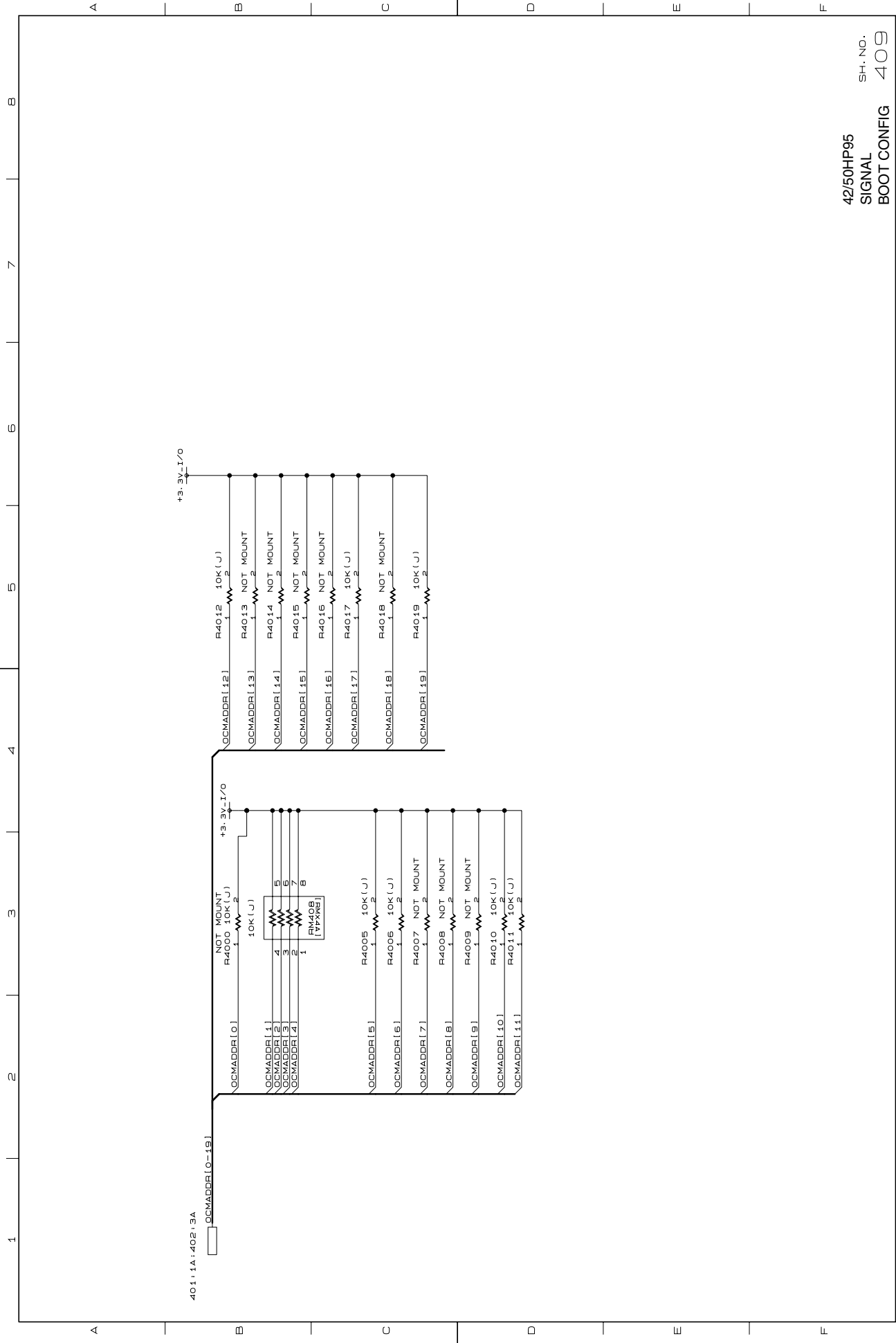


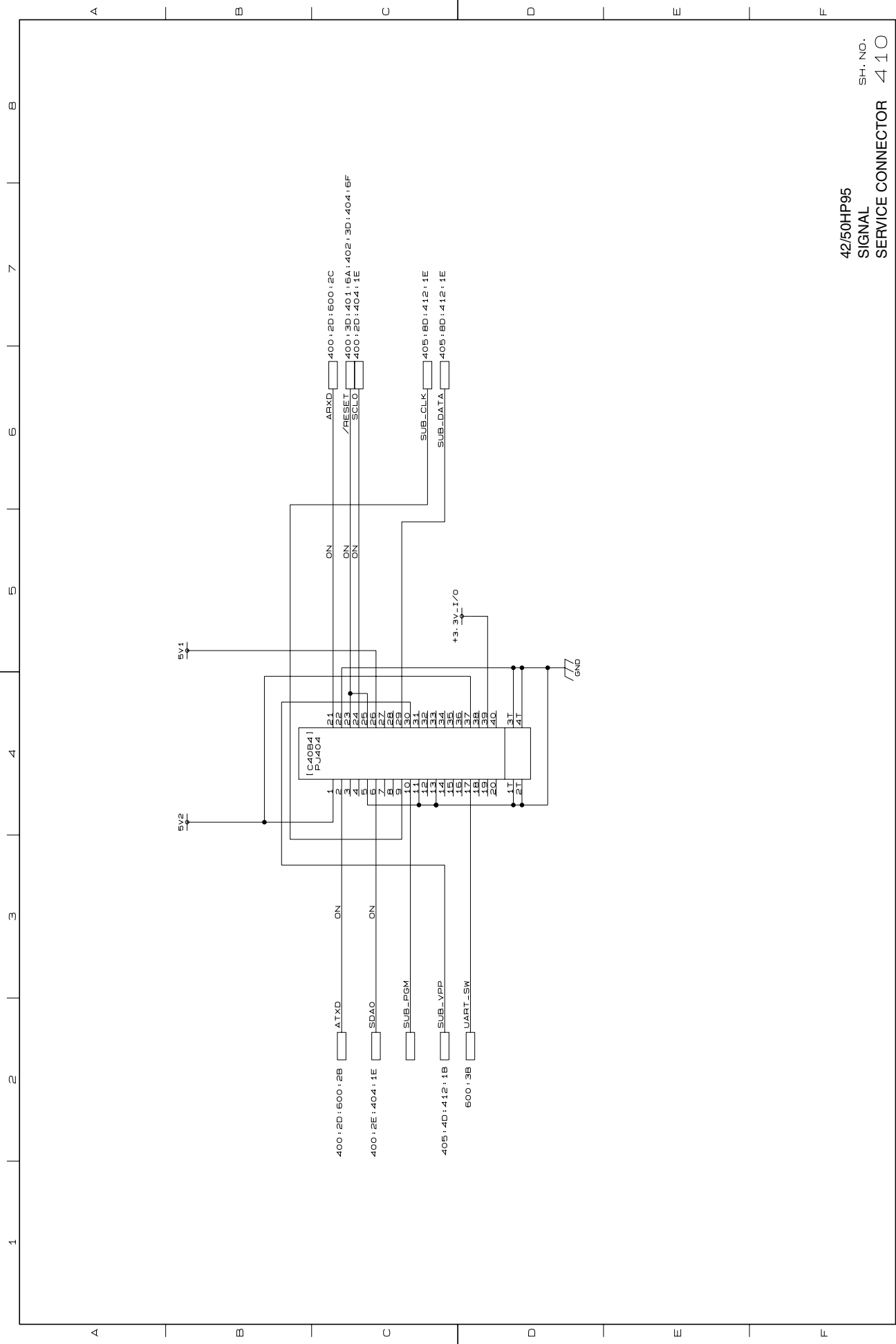




42/50HP95
SIGNAL
CORTEZ REG 3

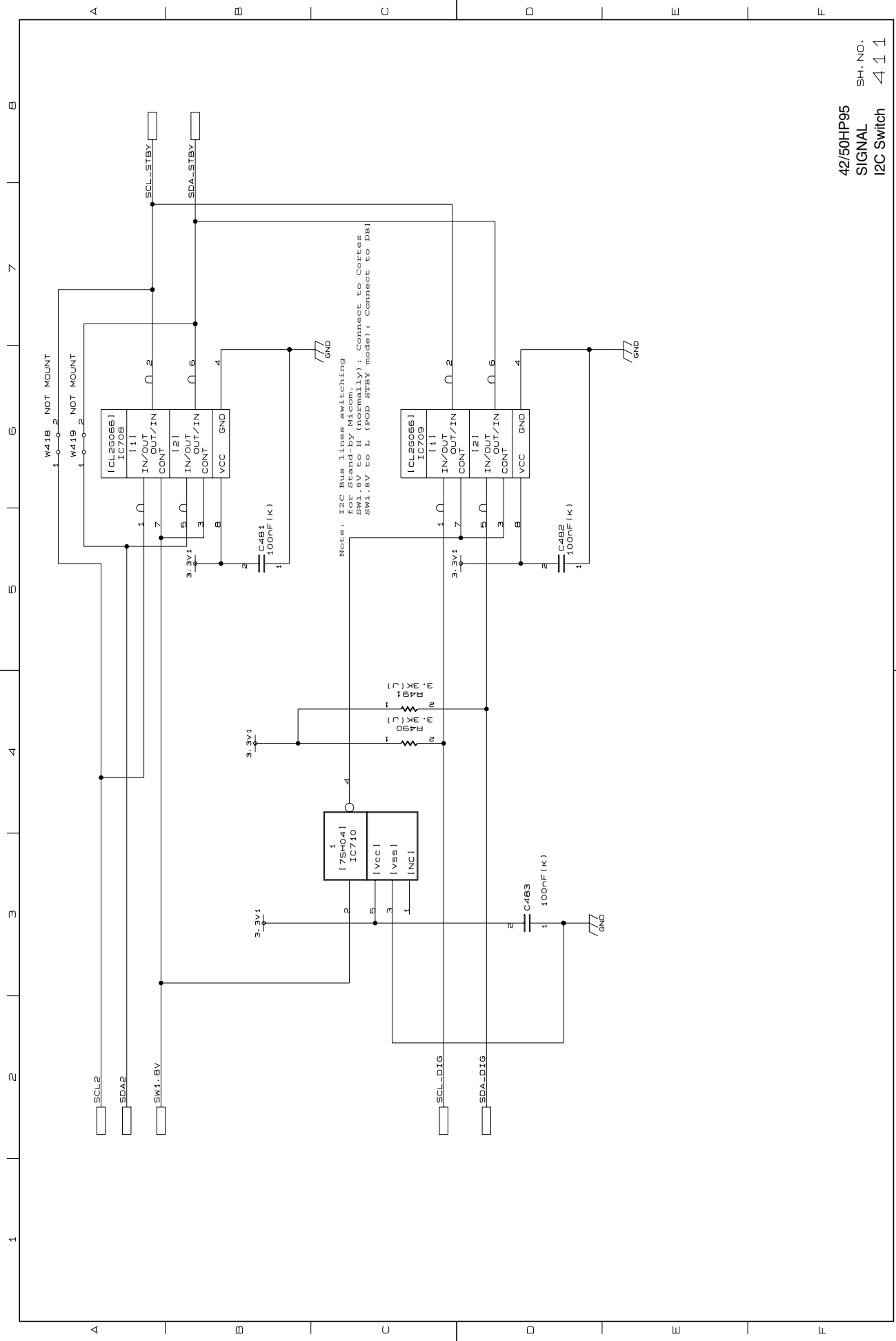
SH. NO.
408

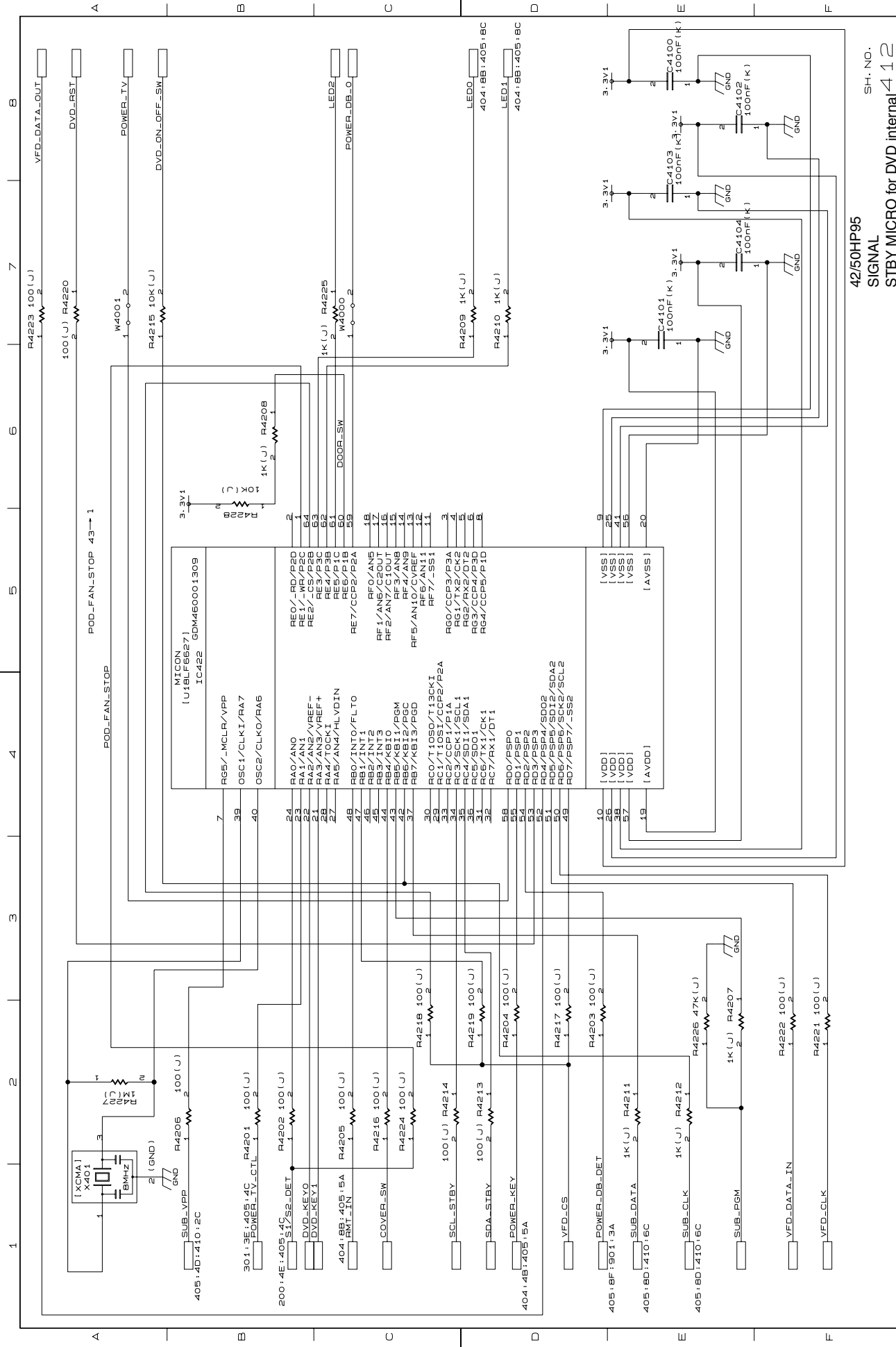




42/50HP95
SIGNAL
SERVICE CONNECTOR

SH. NO.
4 1 0



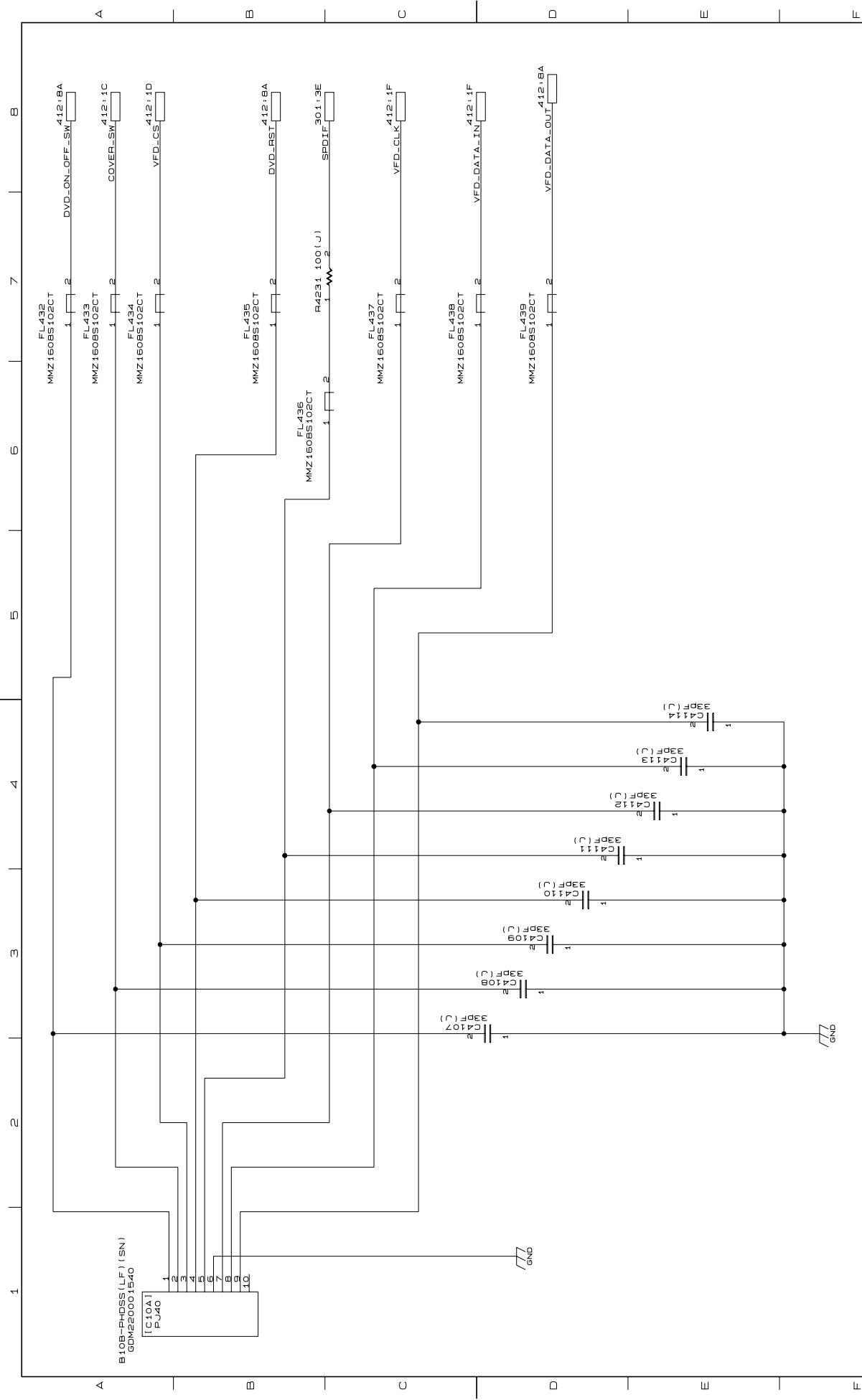


42/50HP95

is .on

SIGNAL
STBY MICRO for DVD internal 4 1 2

(41/129)

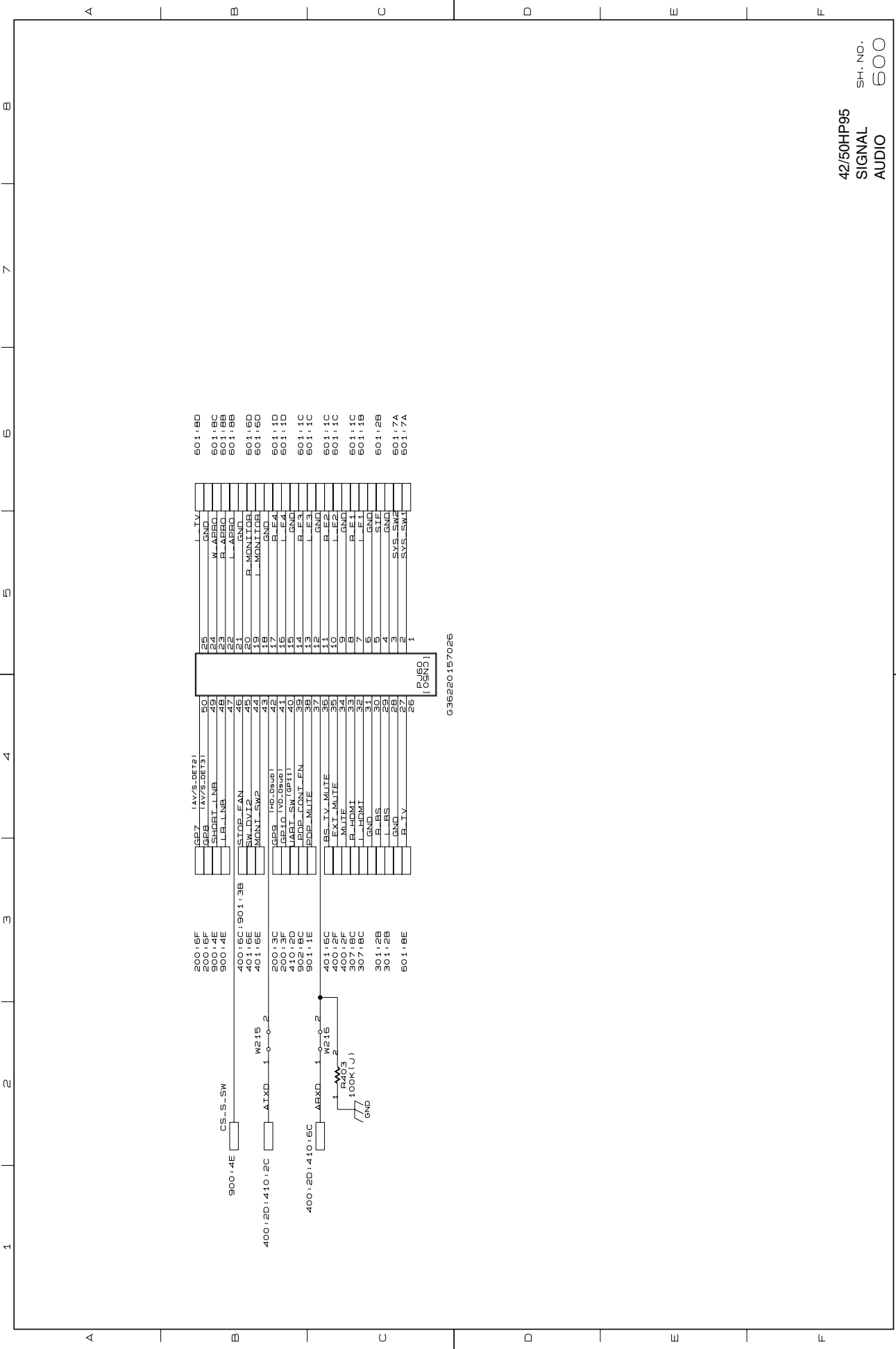


42/50HP95

SIGNAL

DVD 10pin connector

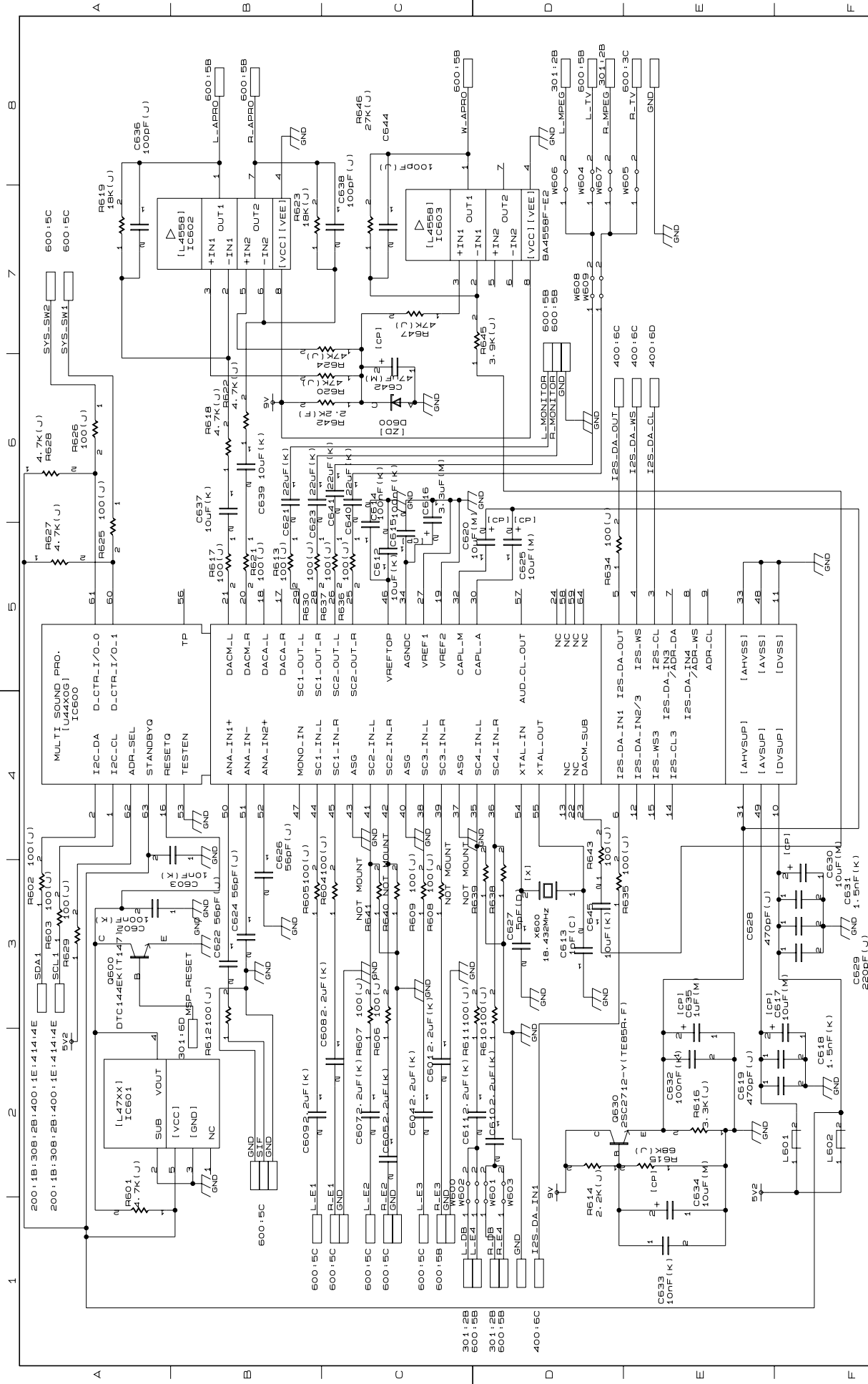
(42/129)



42/50HP95
SIGNAL
AUDIO

SH. NO.
600

(44/129)



42/50HP95

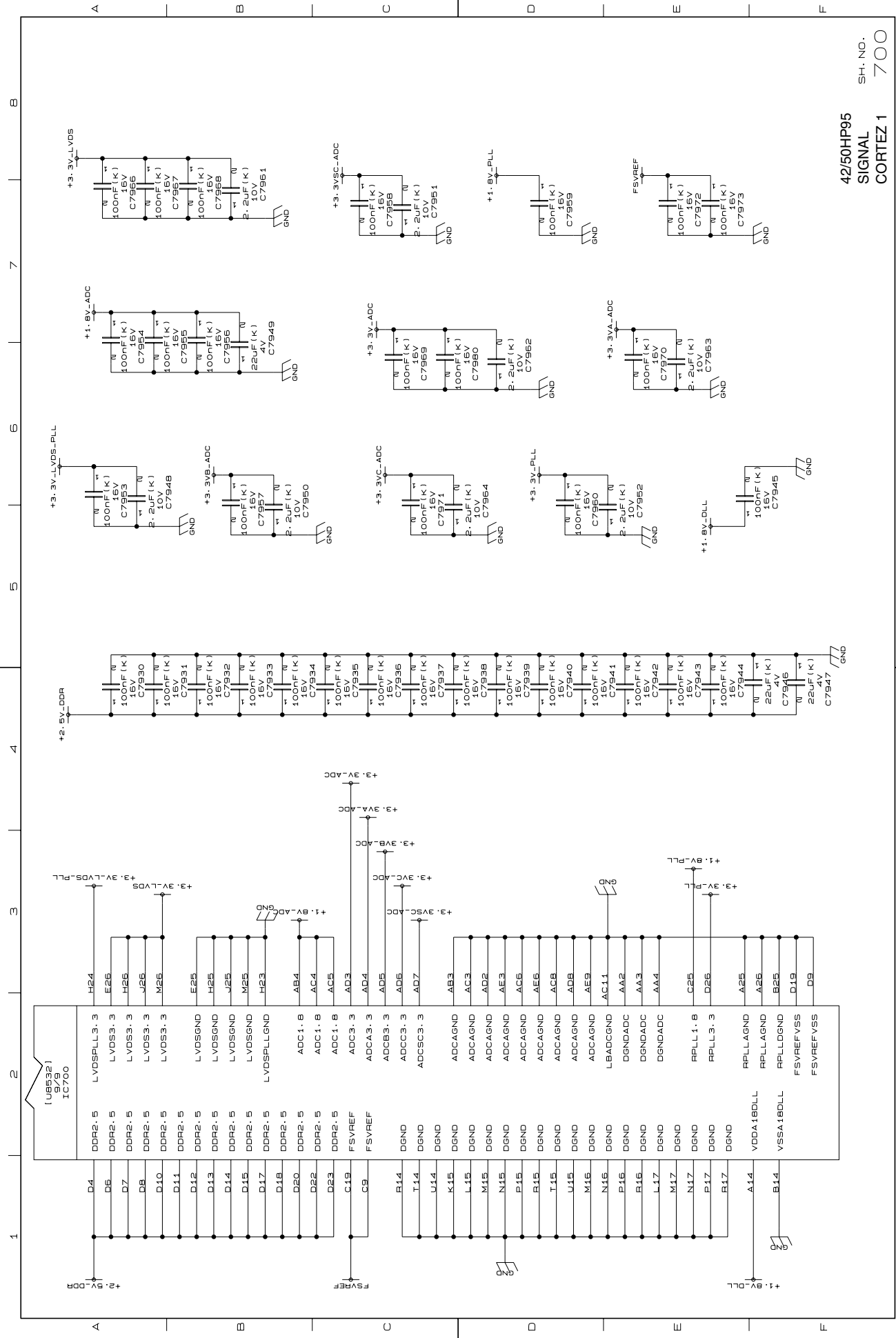
SIGNAL

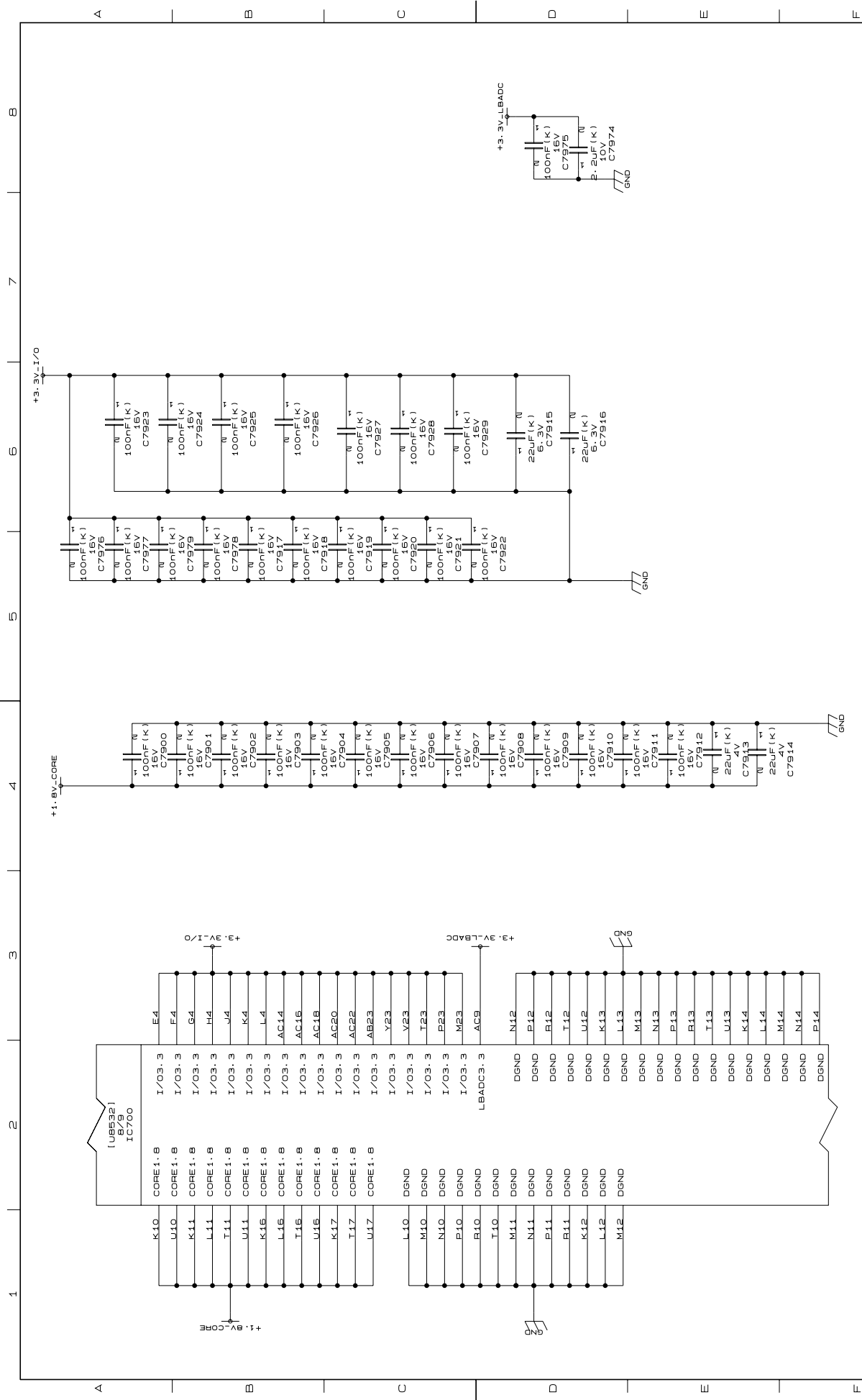
AUDIO MSP

SH. NO.

601

(45/129)



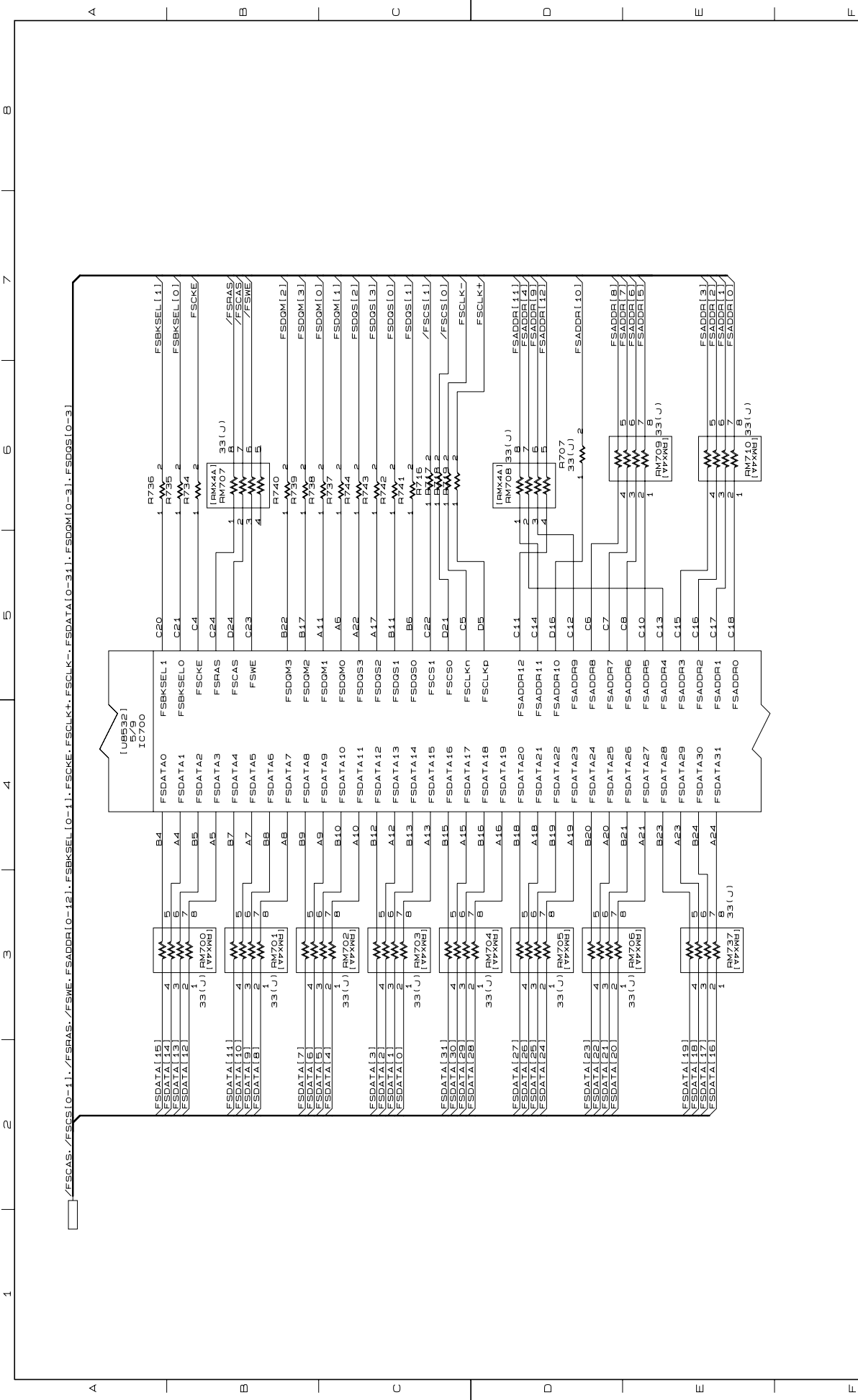


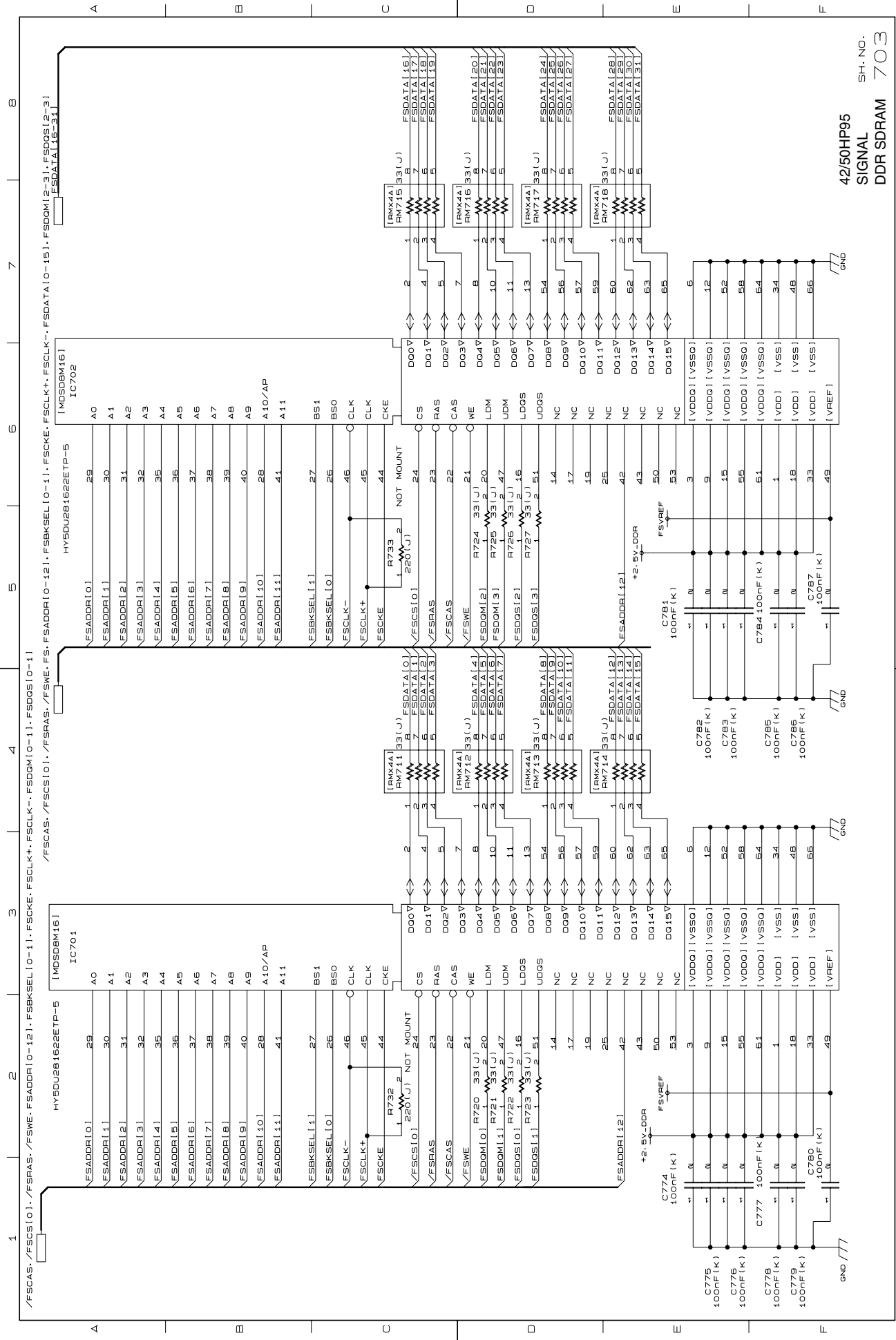
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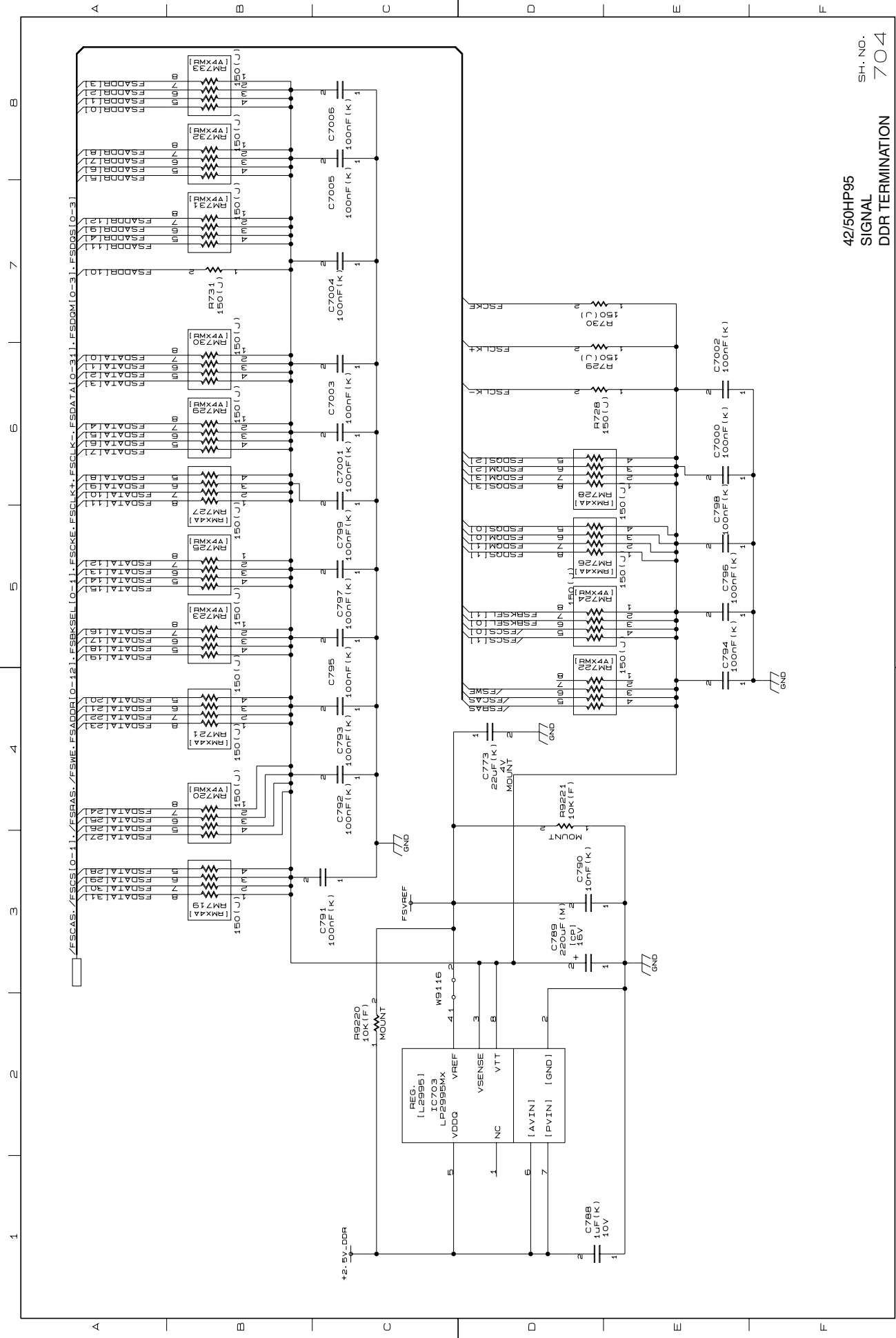
SIGNAL

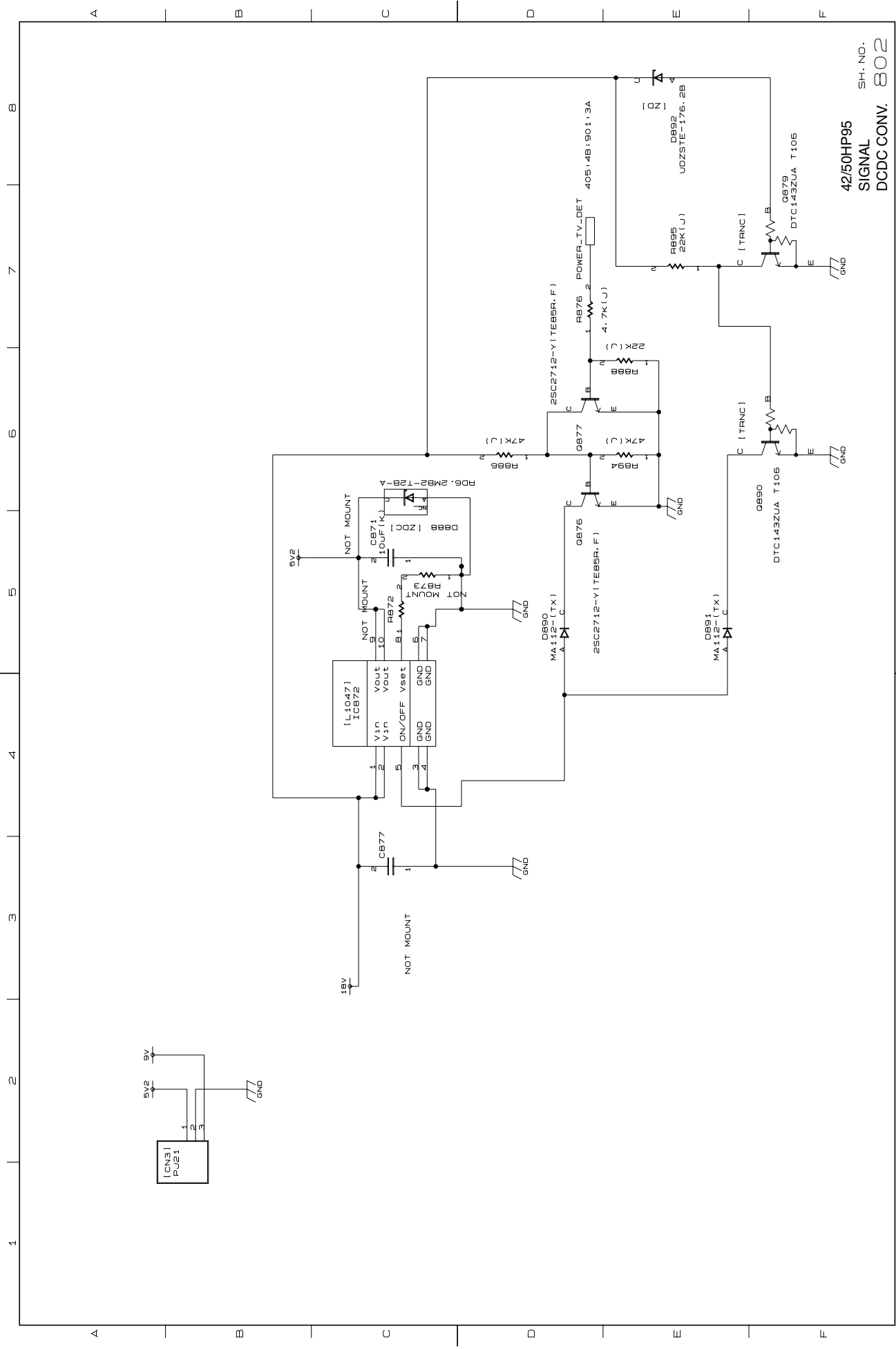
CORTEZ 2 701

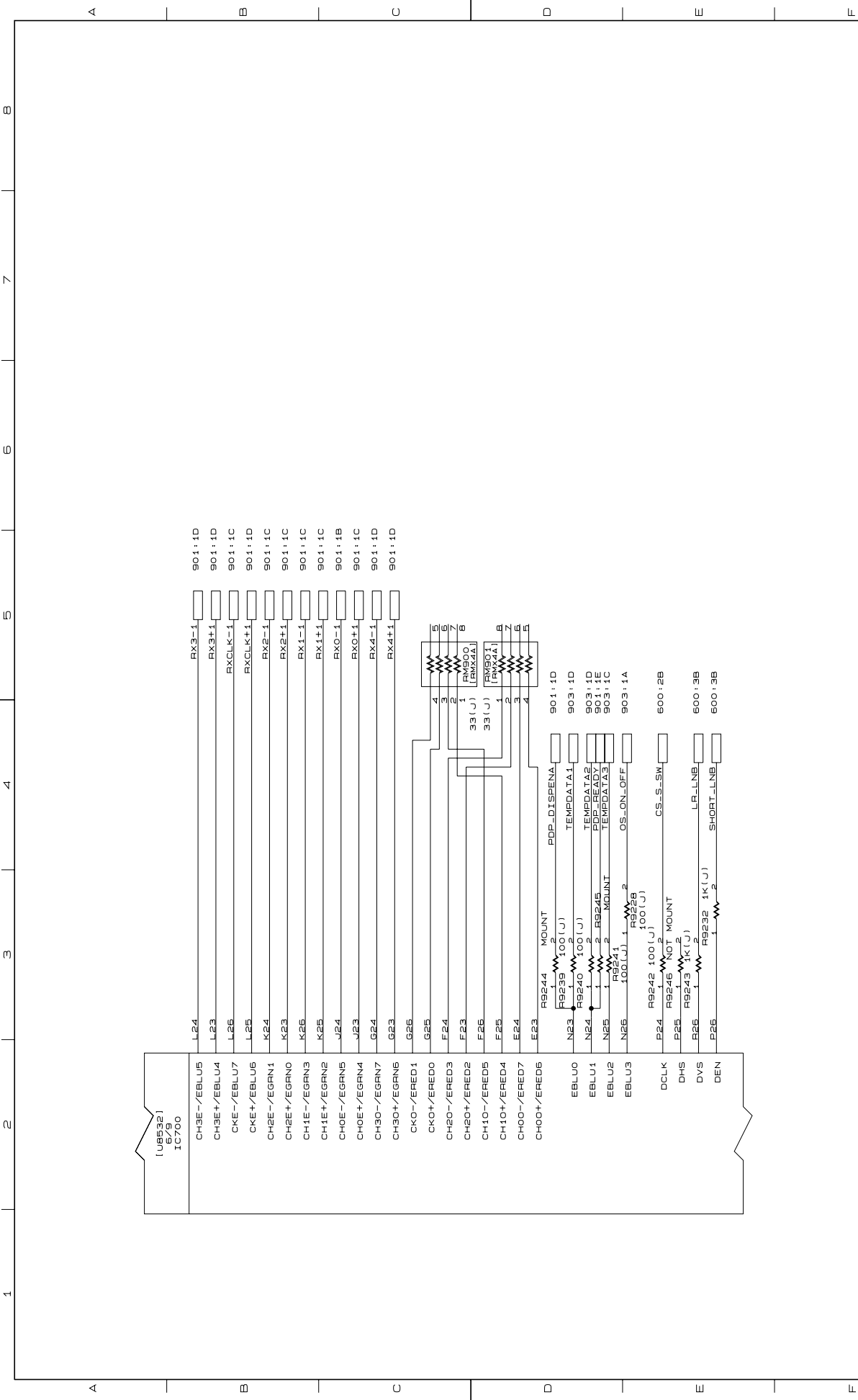
(47/129)

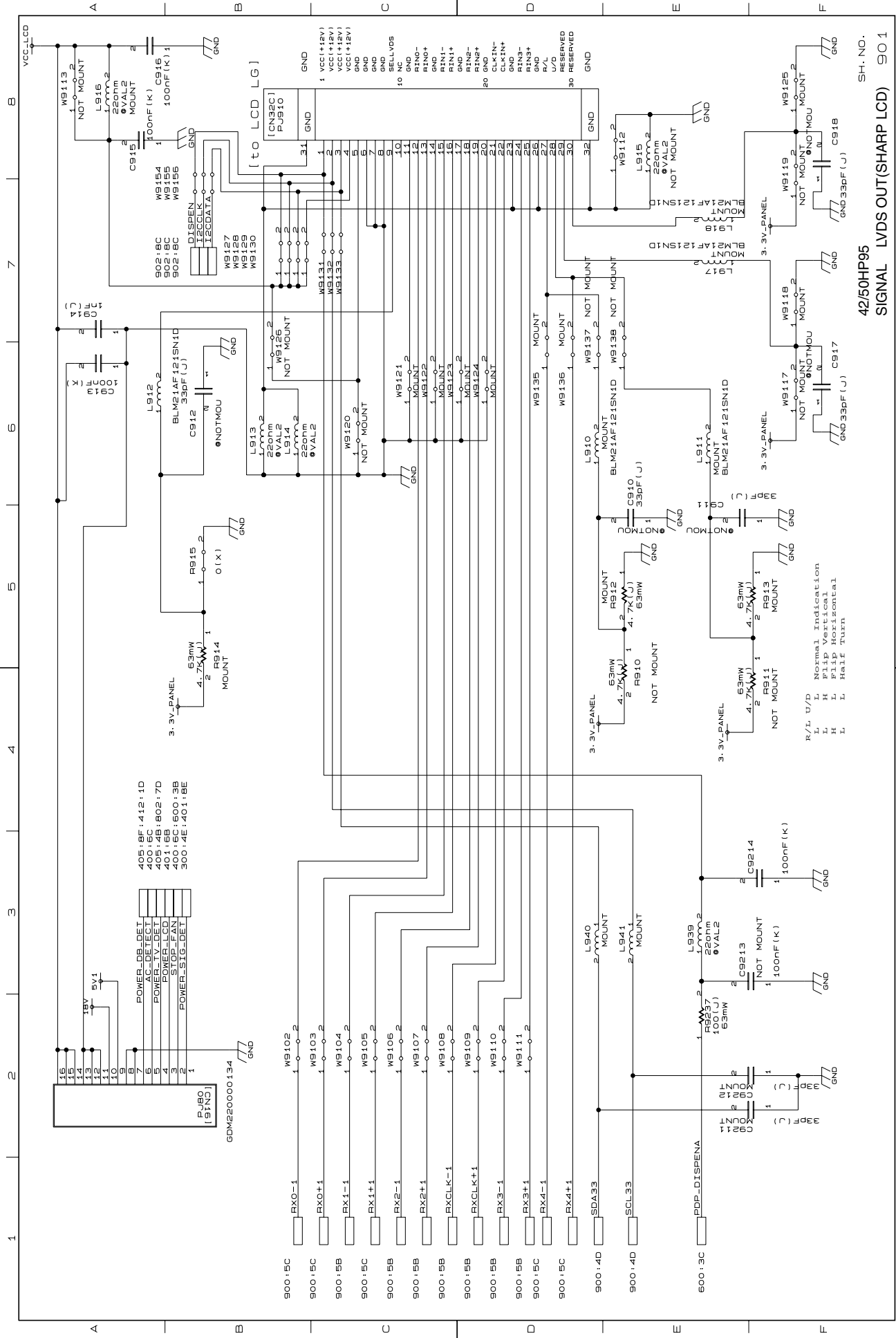


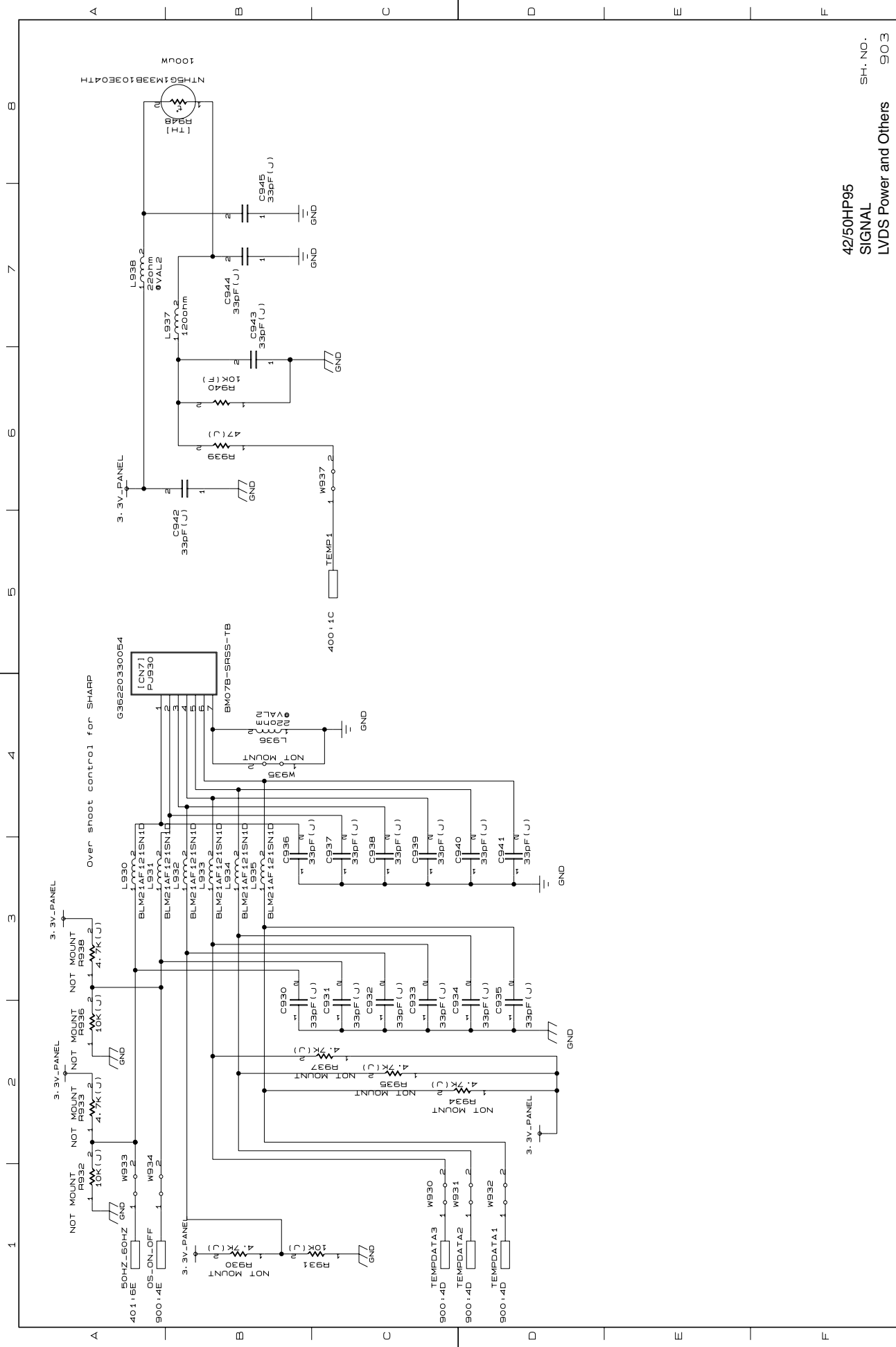


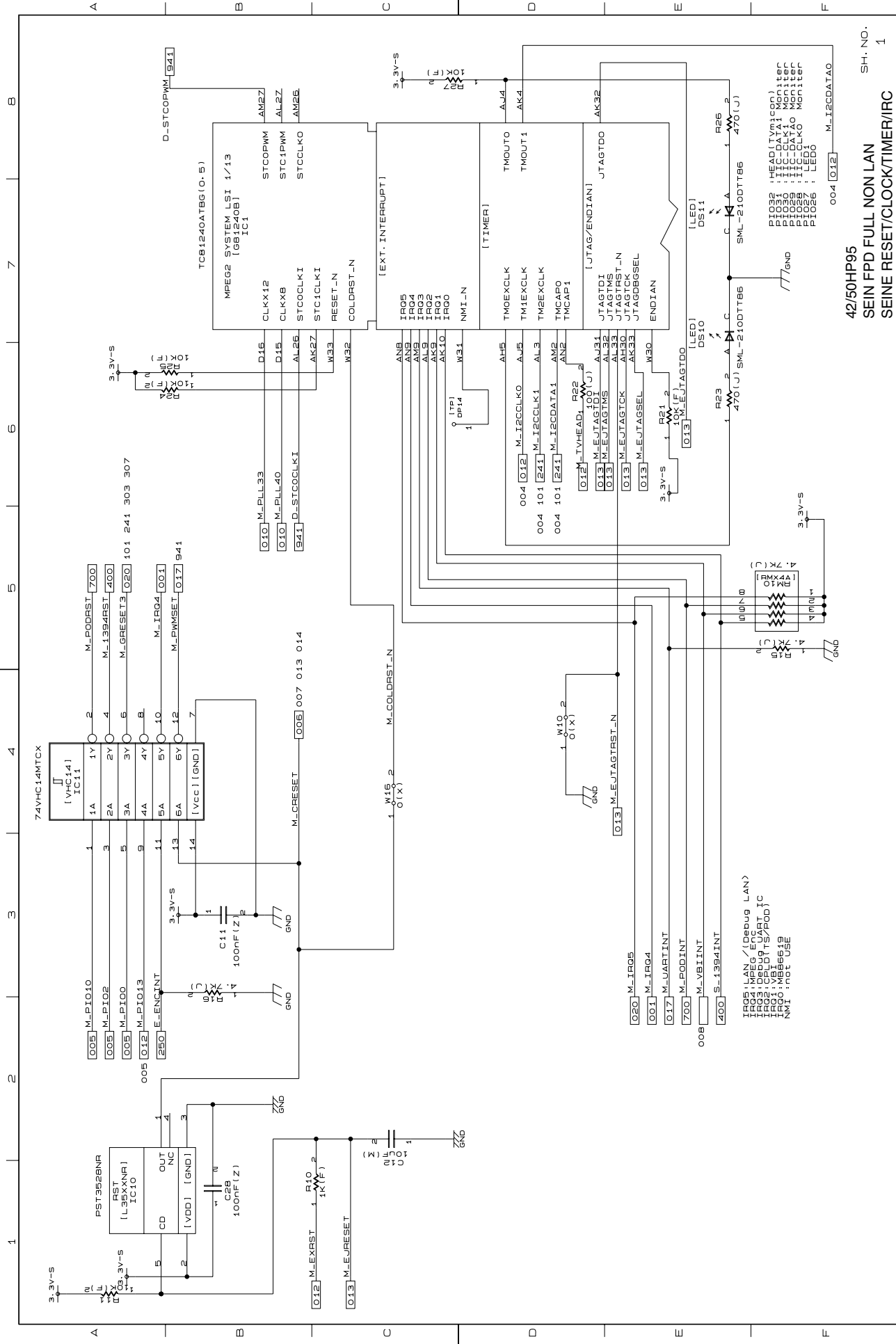


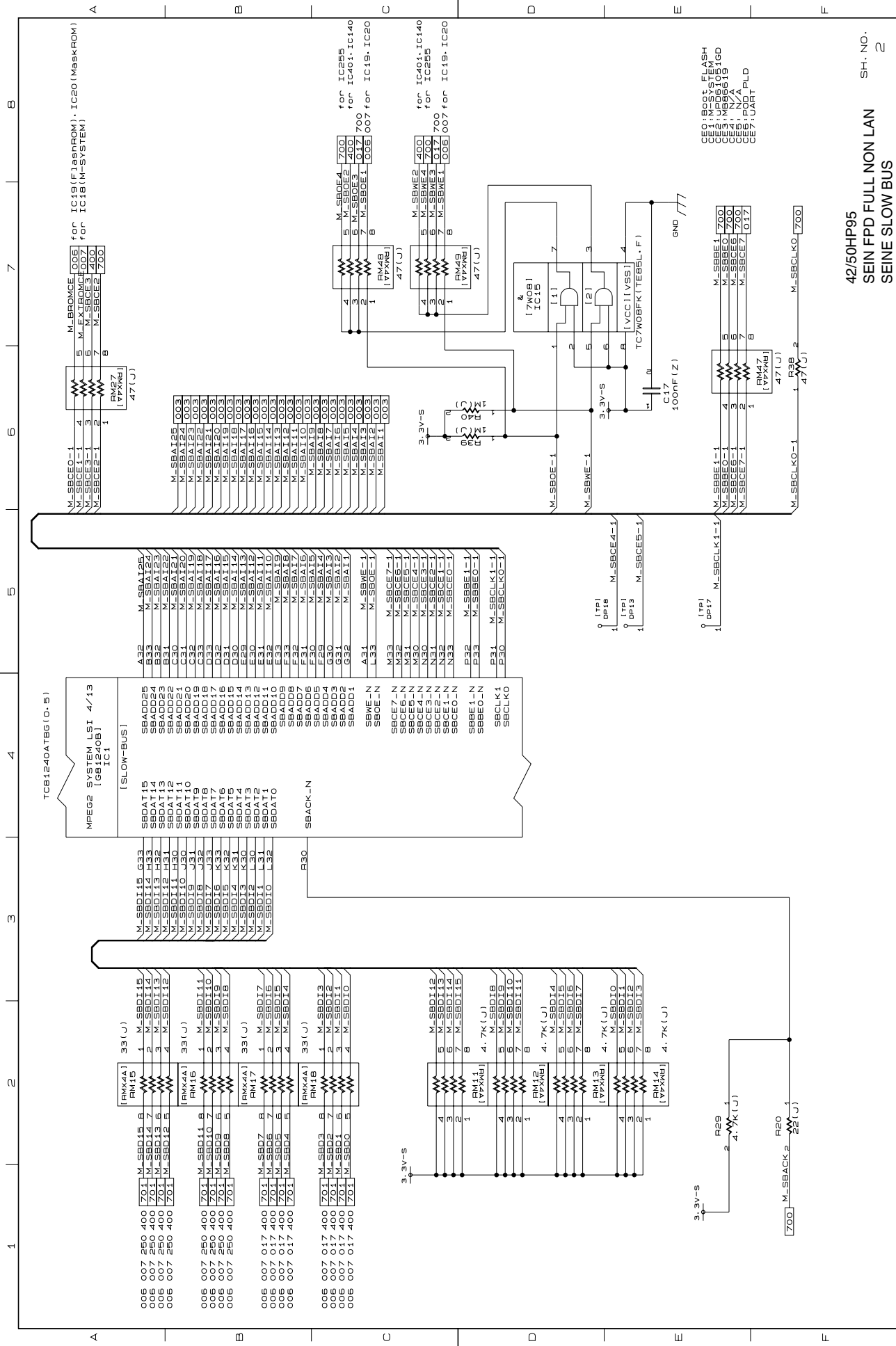












42/50HP95

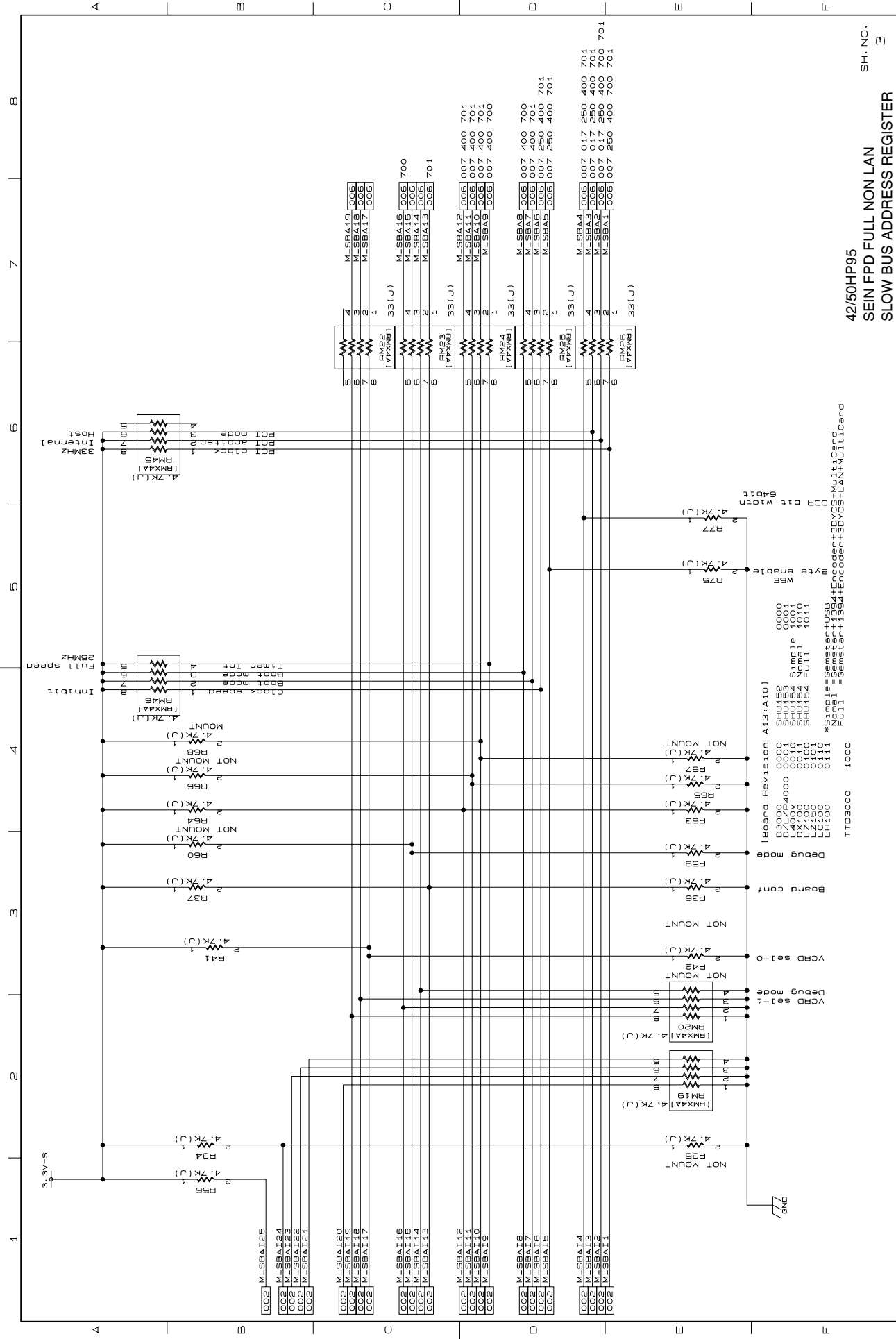
SEIN FPD FULL NON LAN

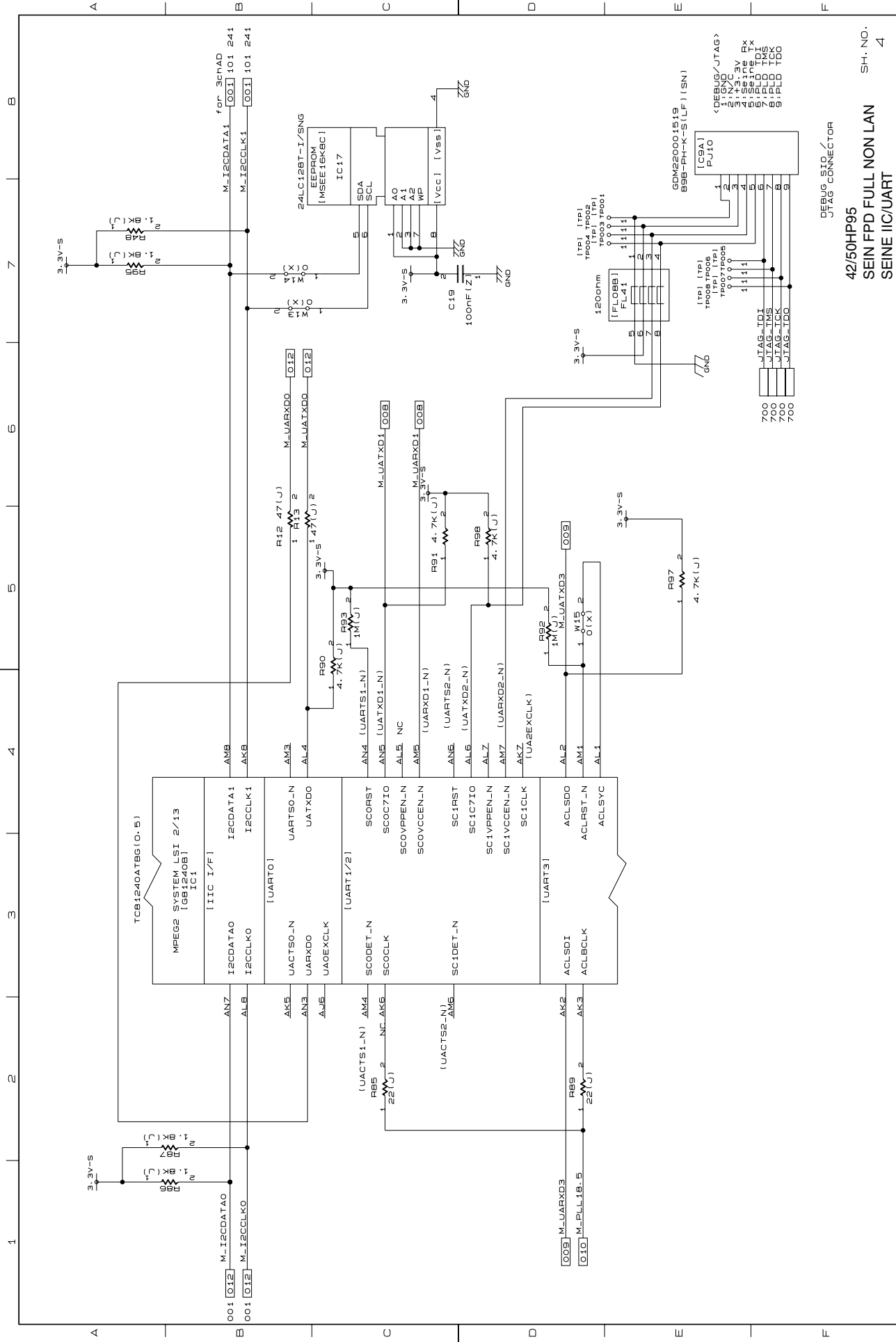
SEINE SLOW BUS

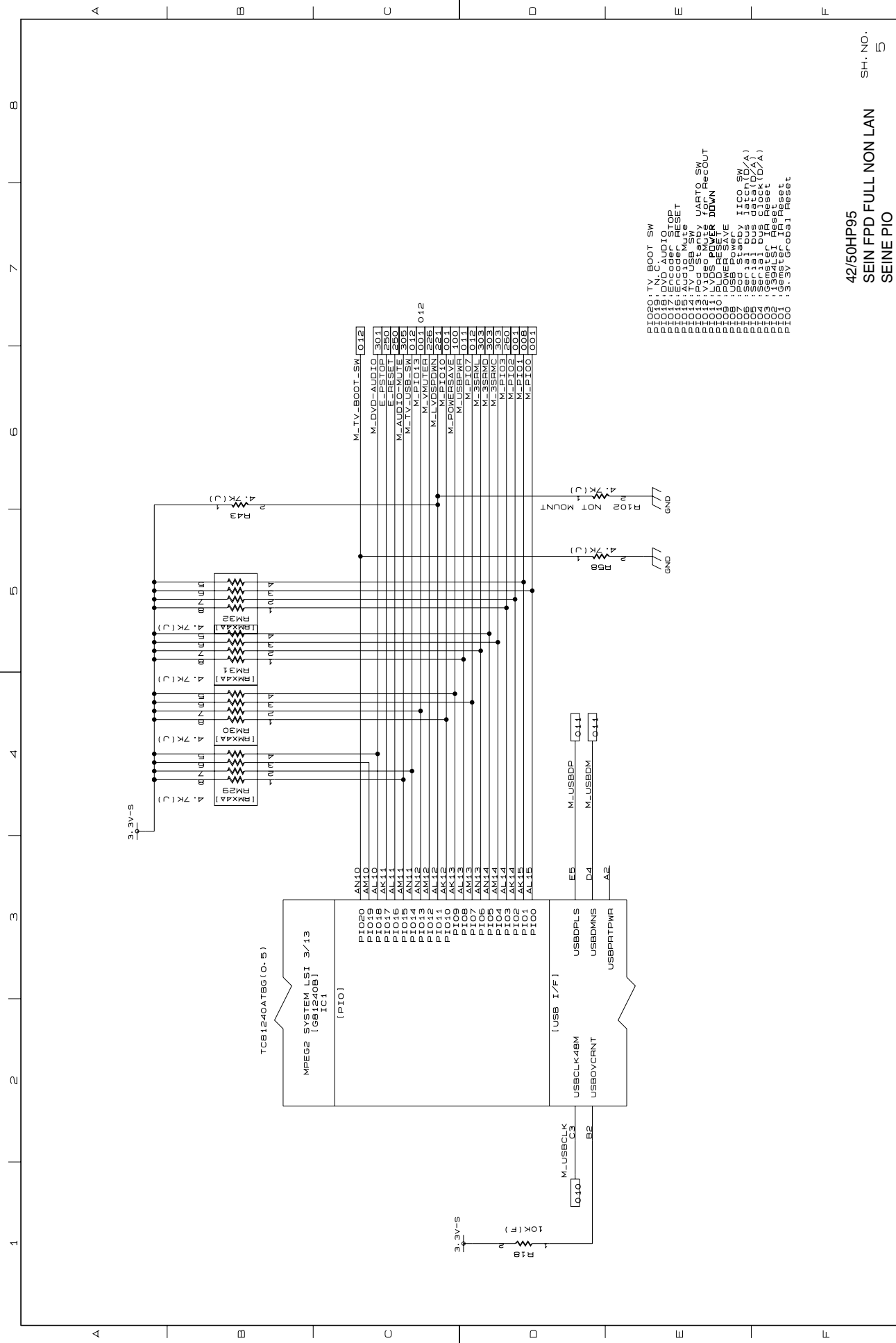
is.

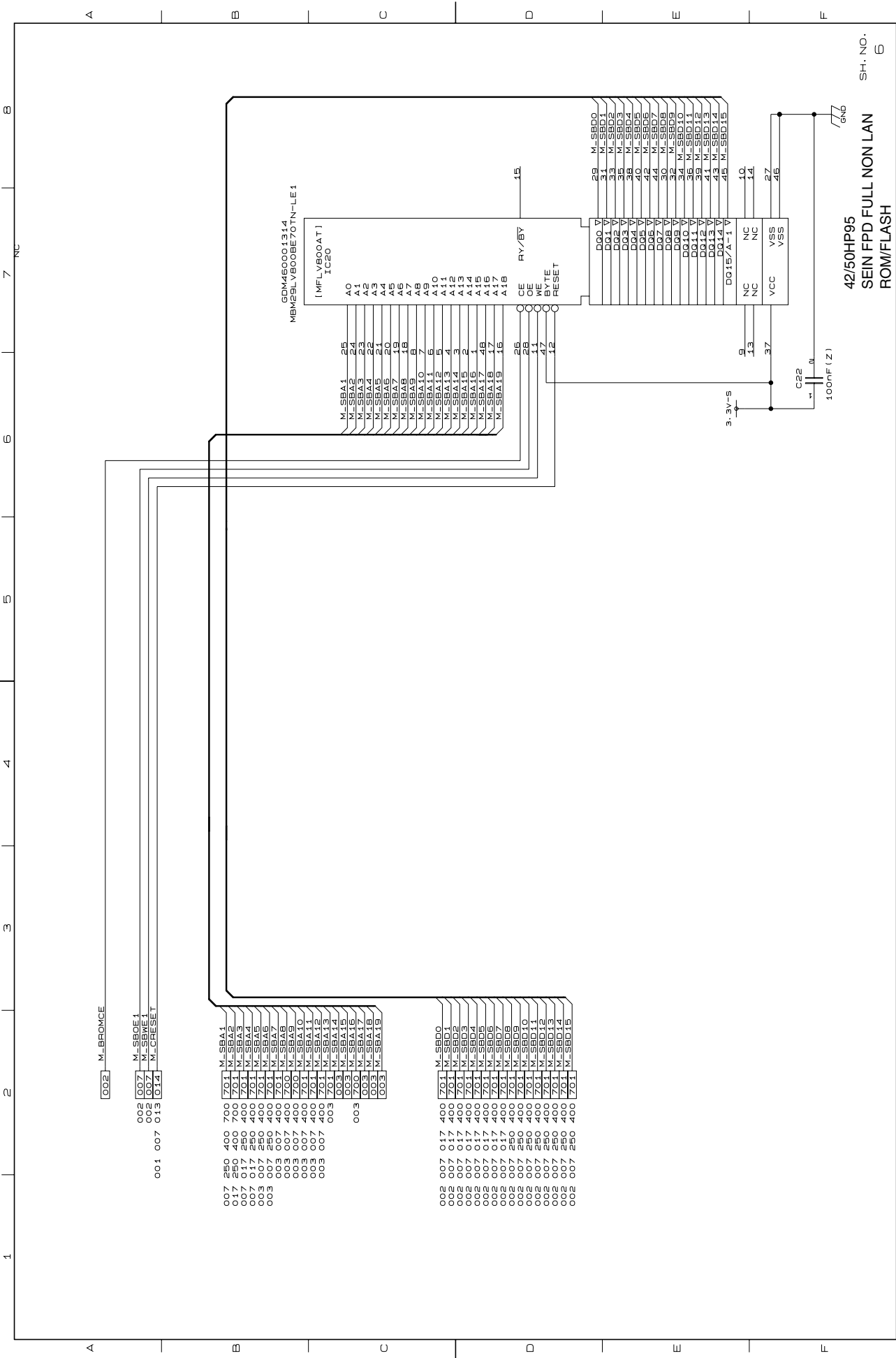
2

(57/128)

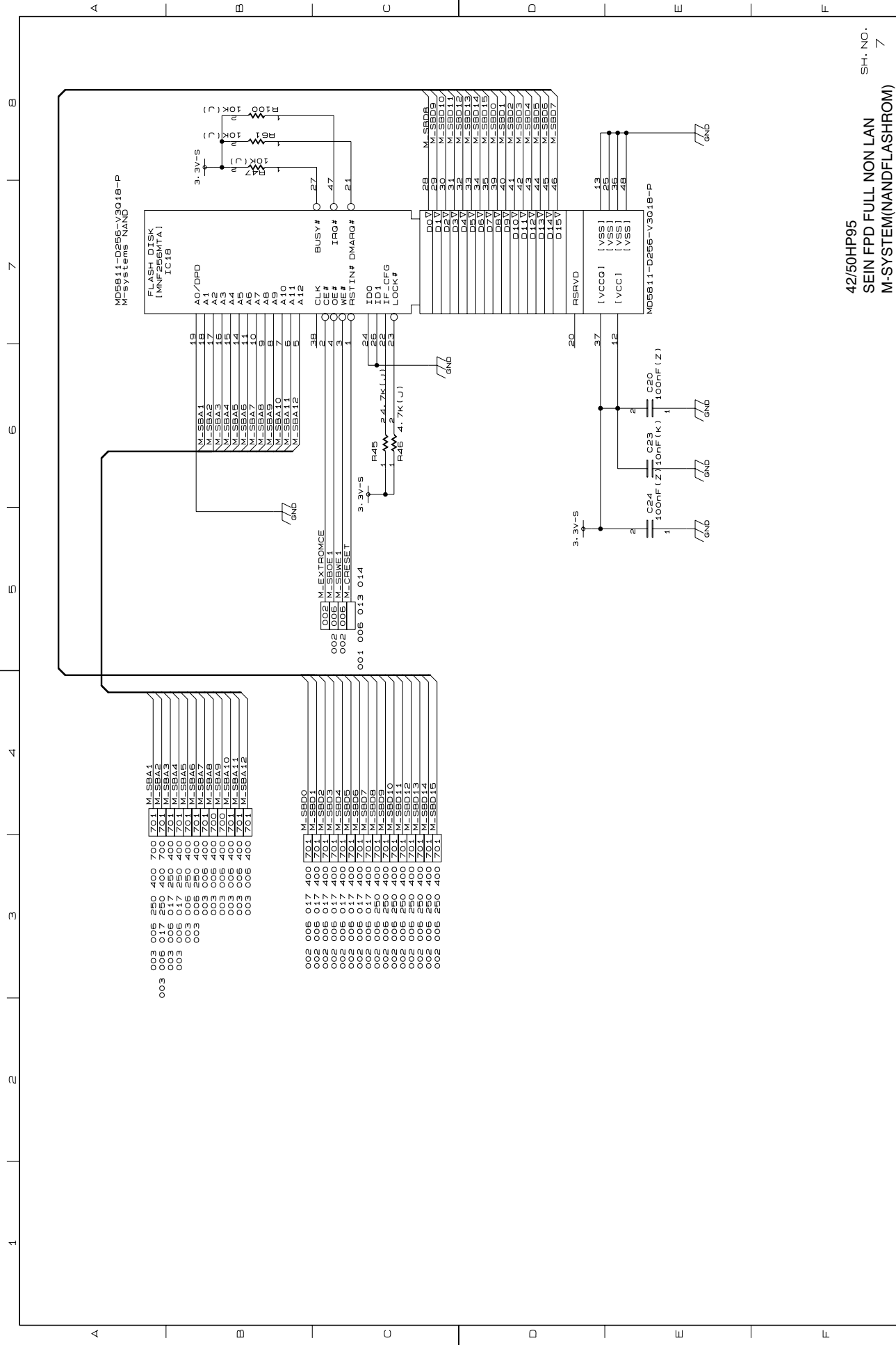


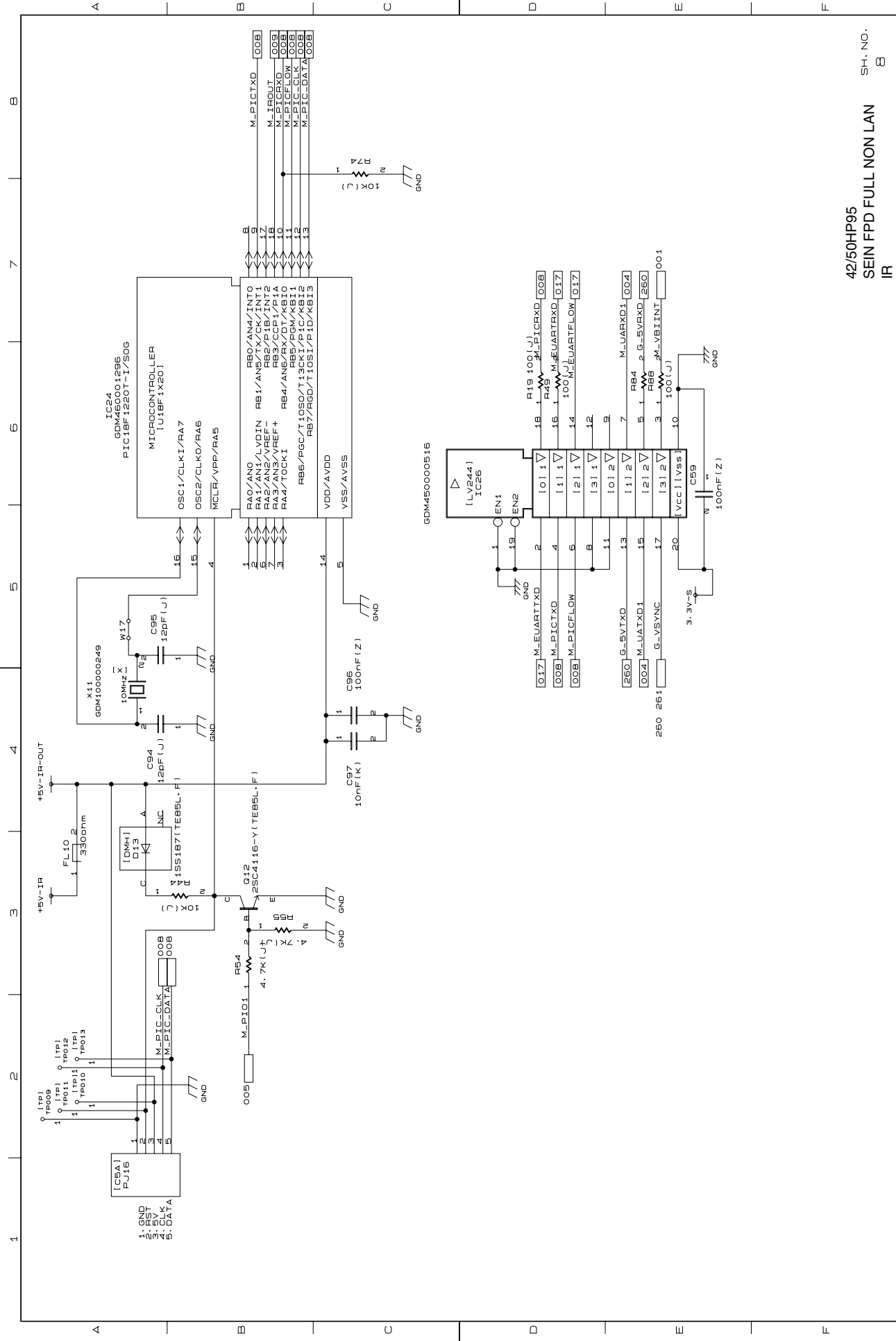






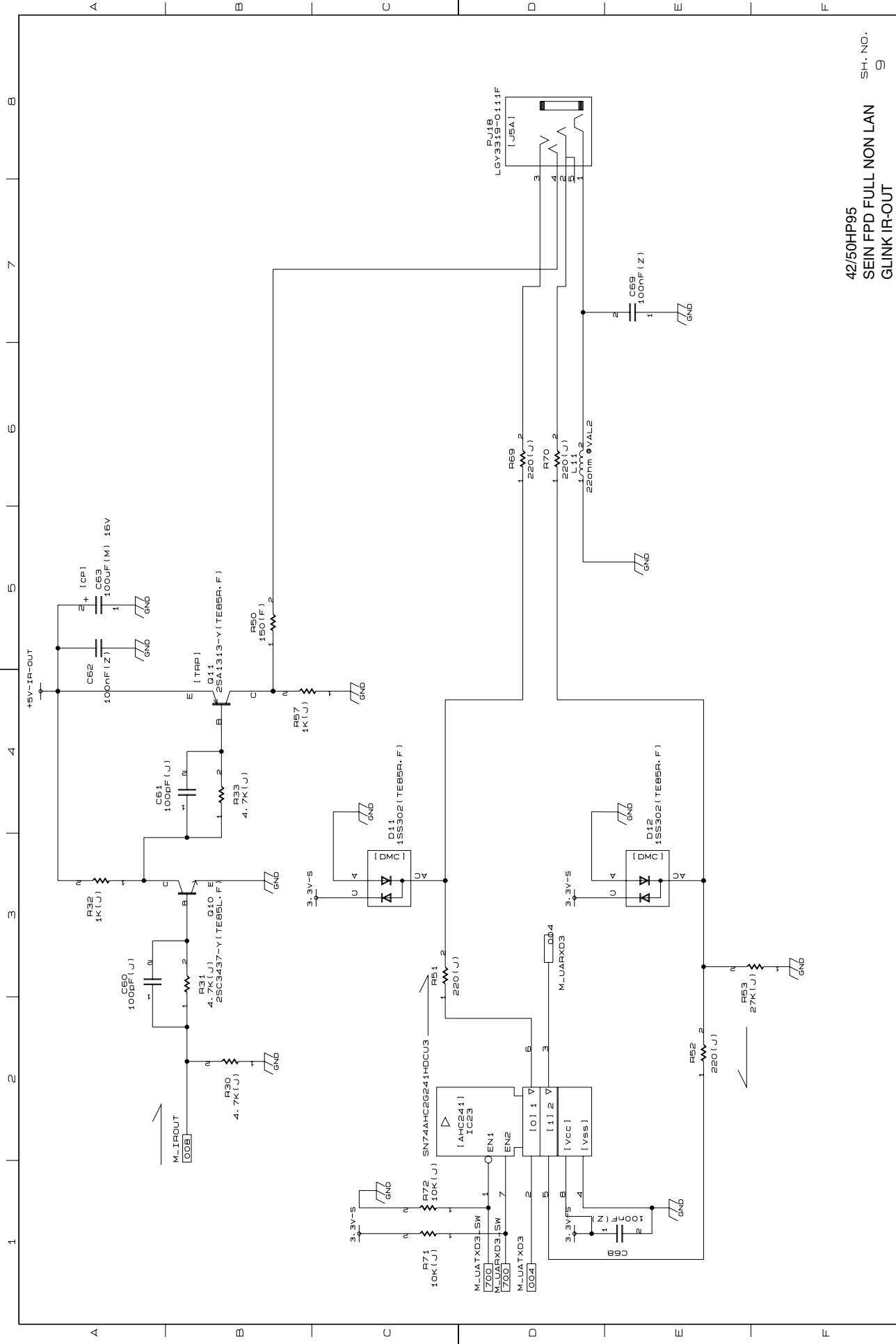
42/50HP95
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ROM/FLASH

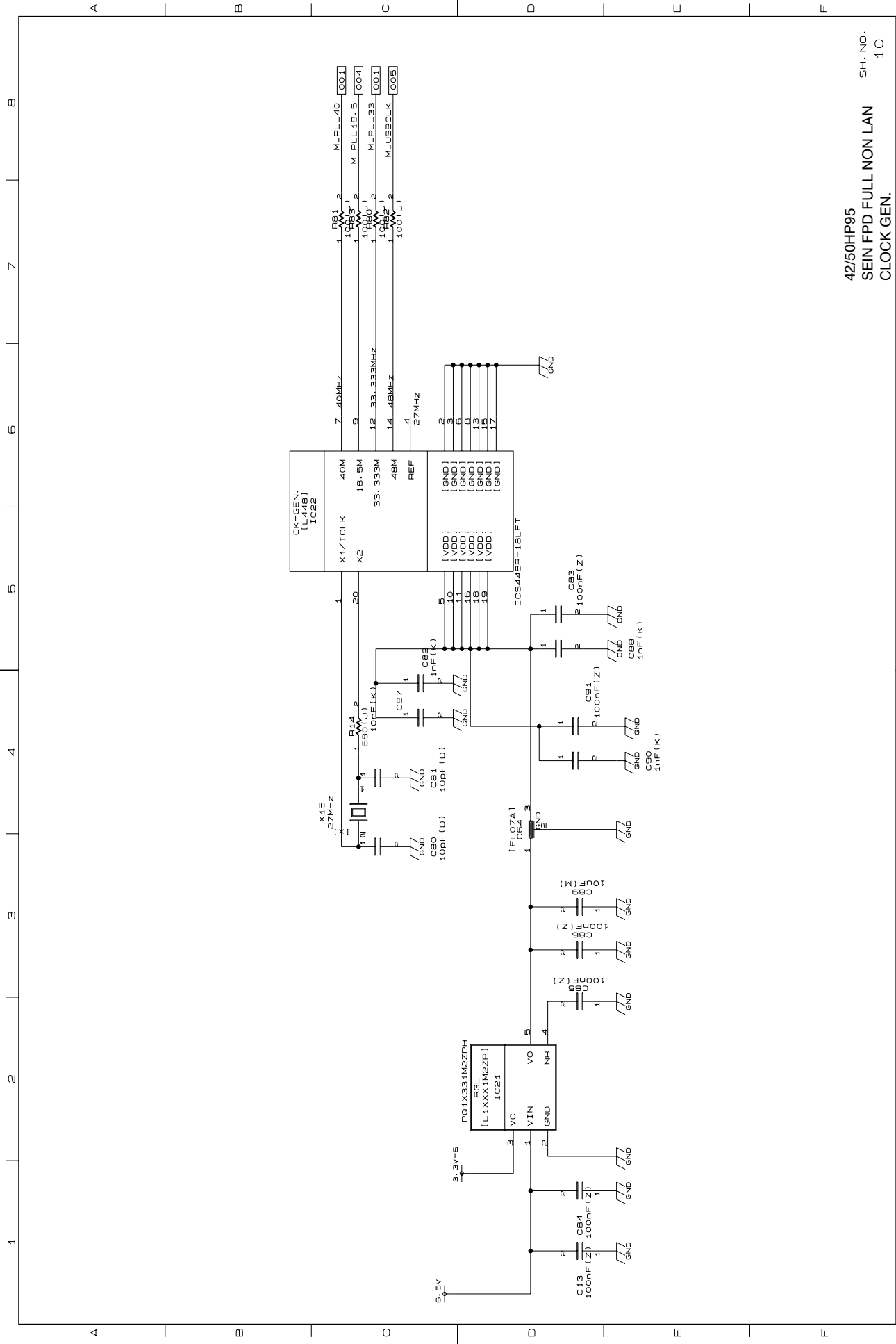




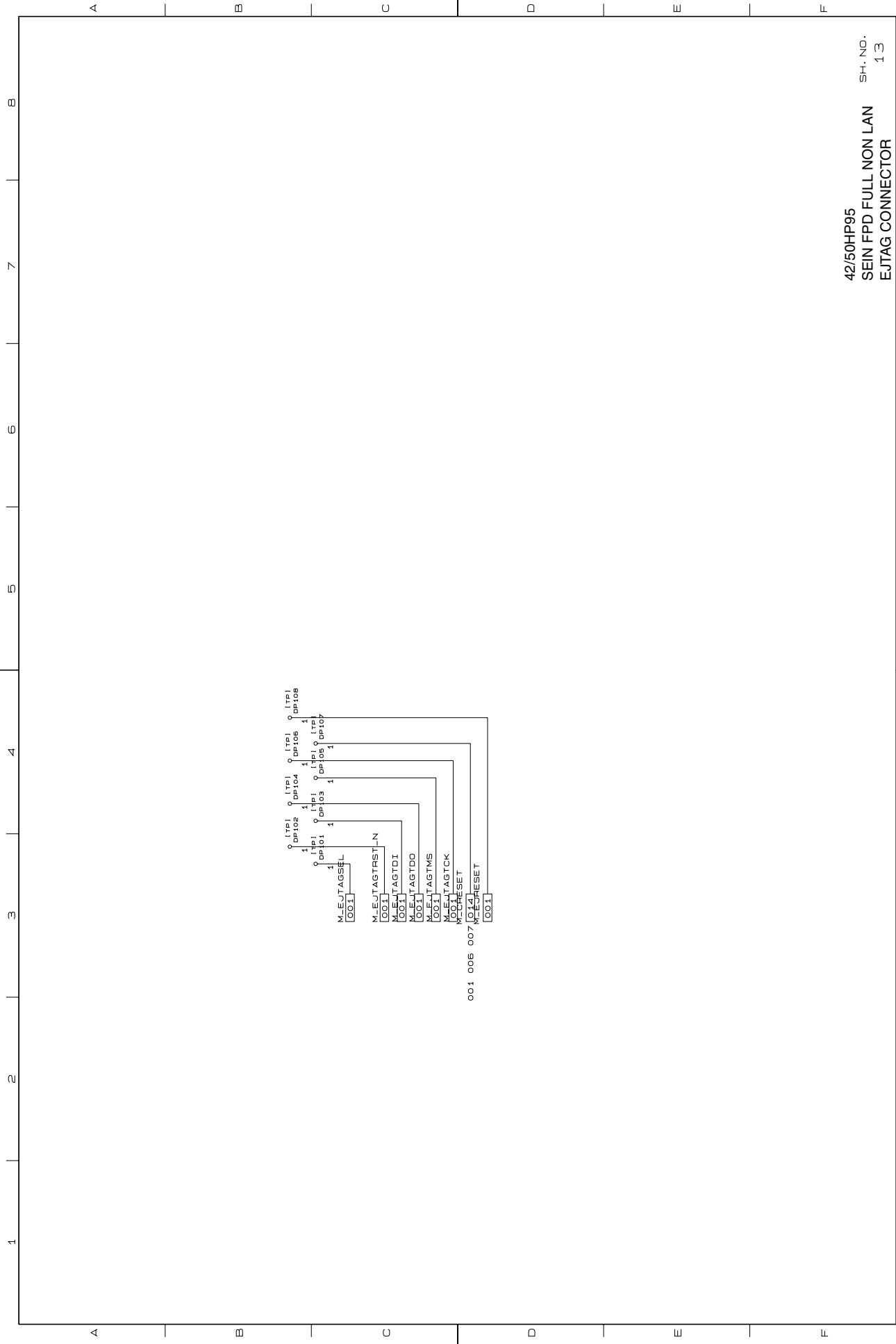
42/50HP95
SEIN FPD F
IR

(63/128)



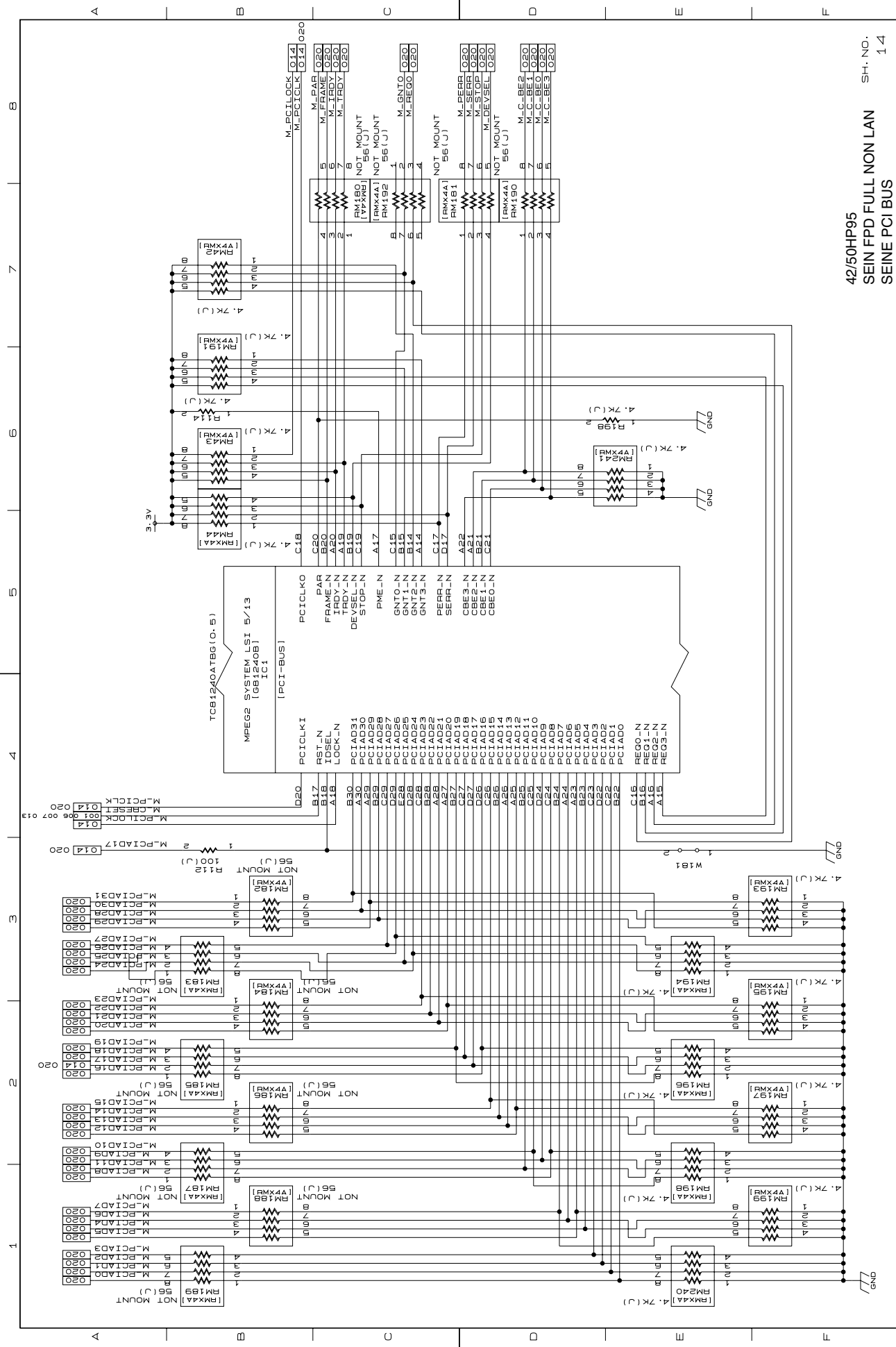


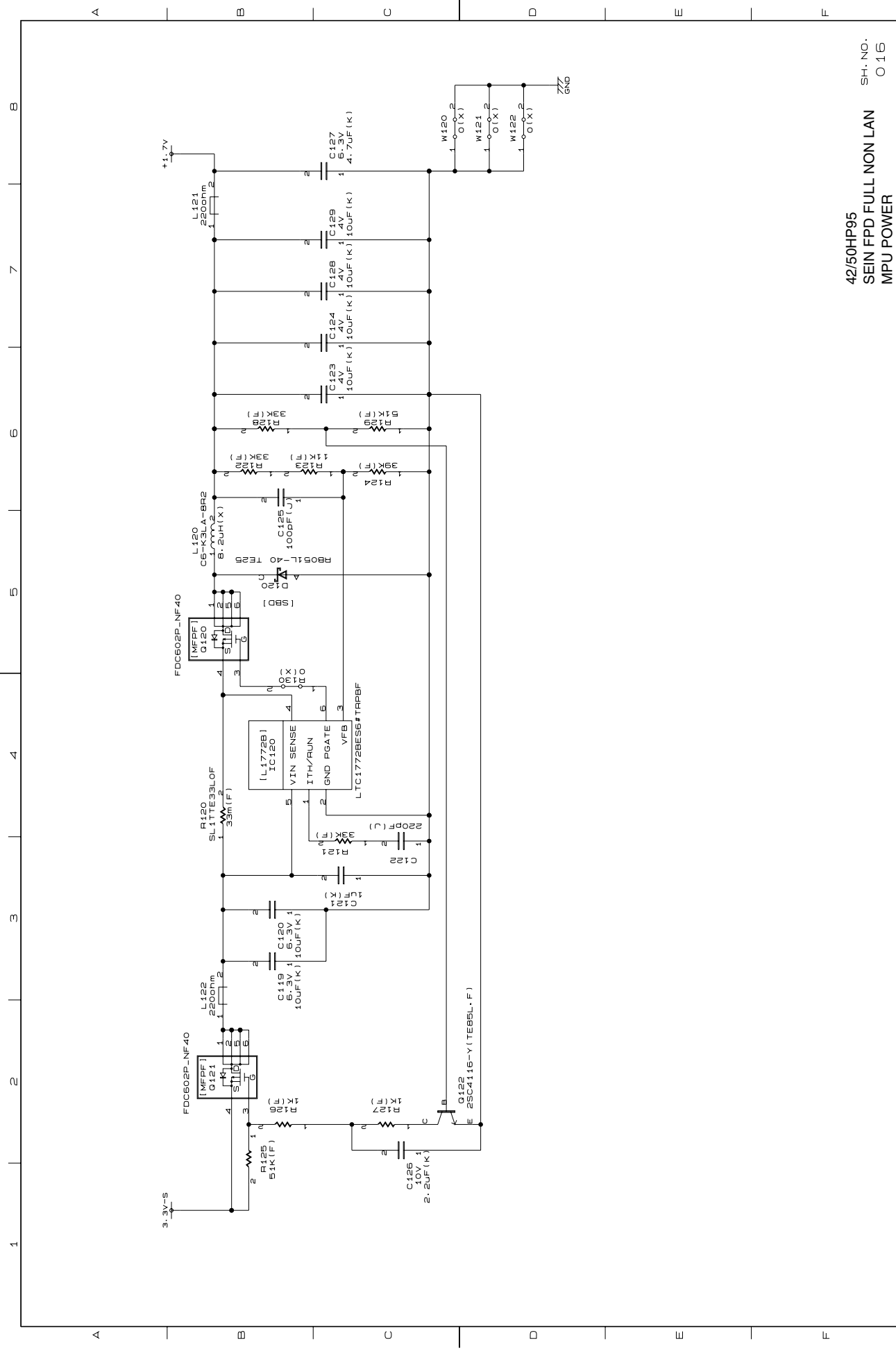




42/50HP95
SEIN FPD FULL NON LAN
EJTAG CONNECTOR

SH. NO.
13



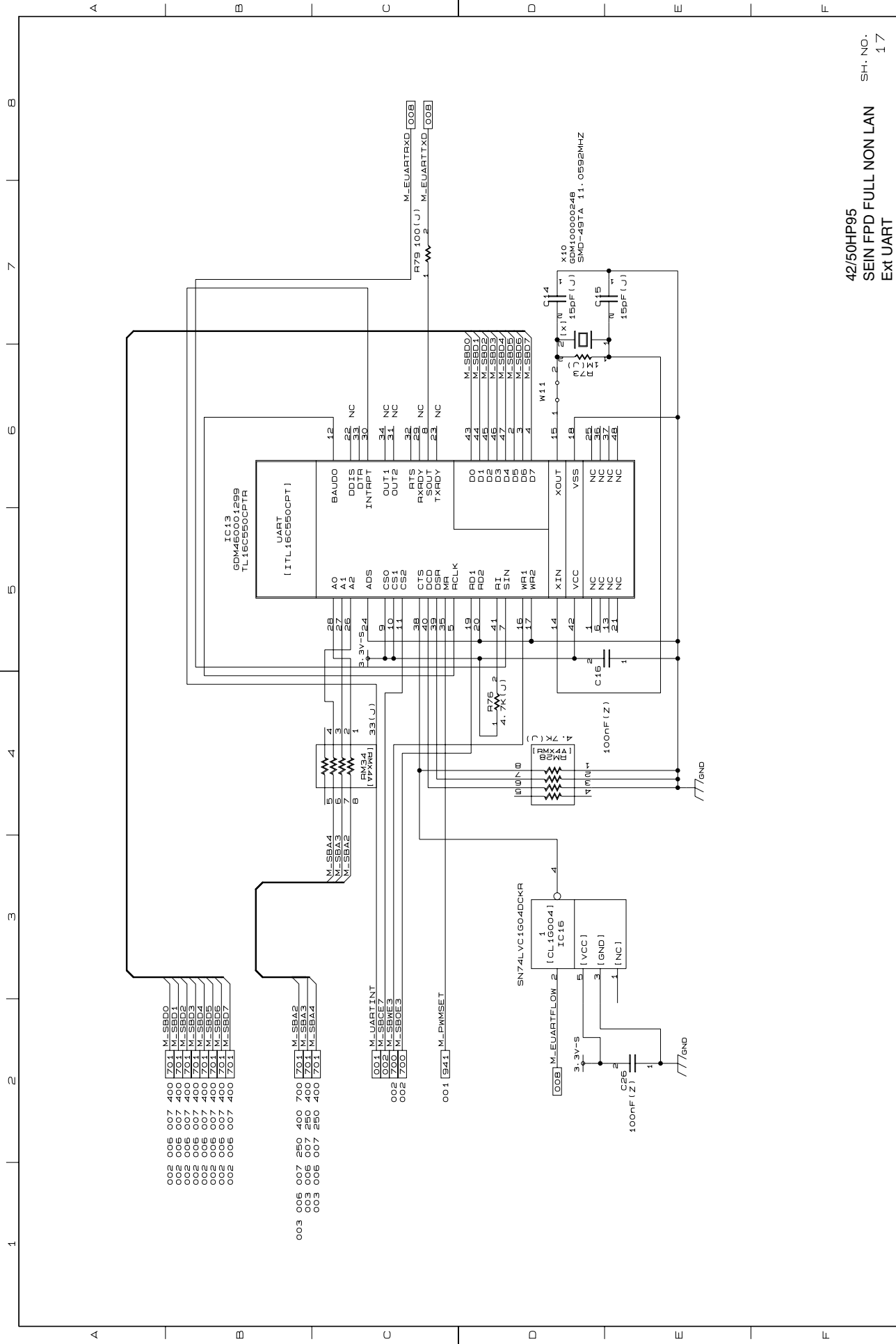


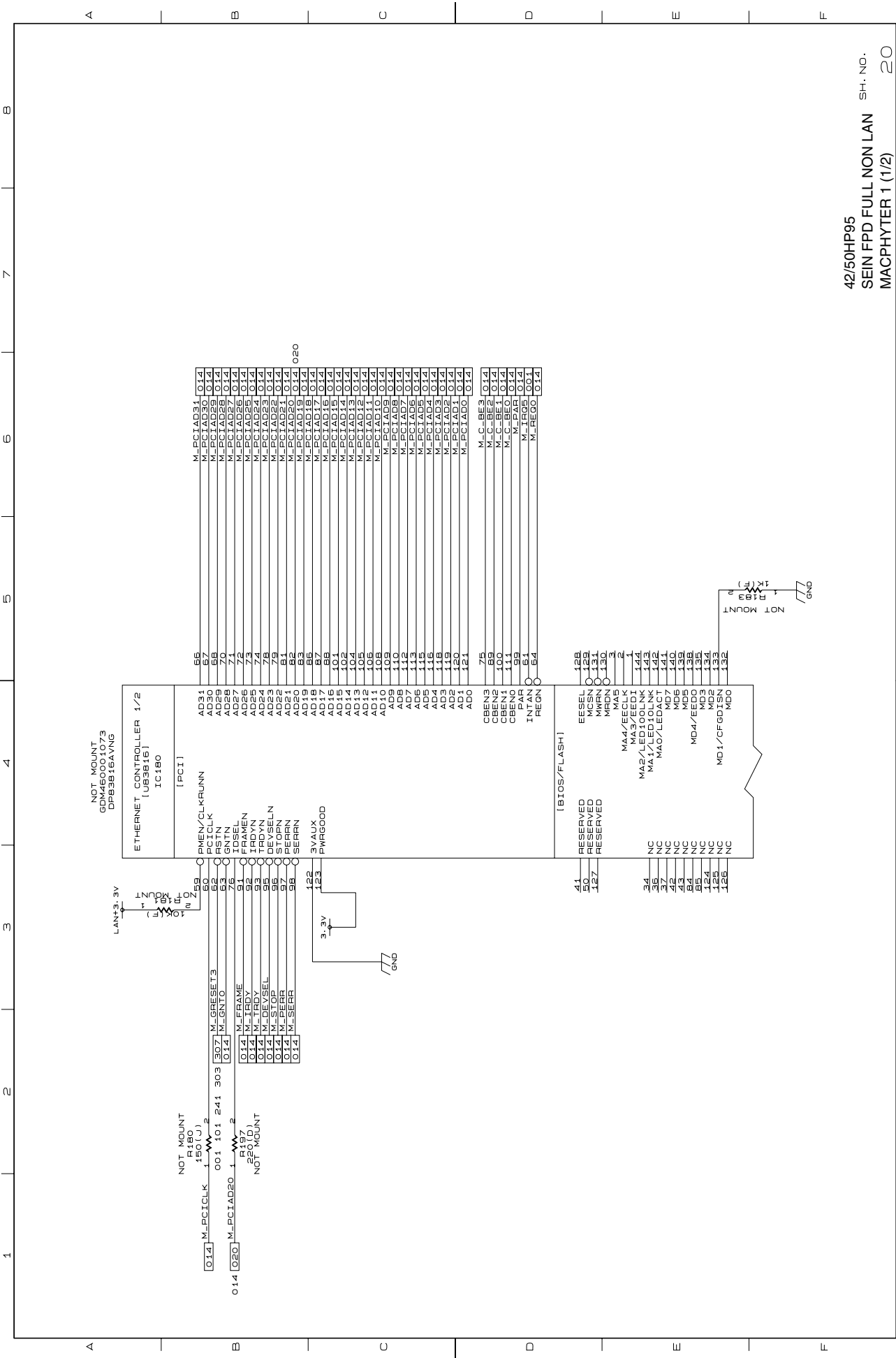
42/50HP95

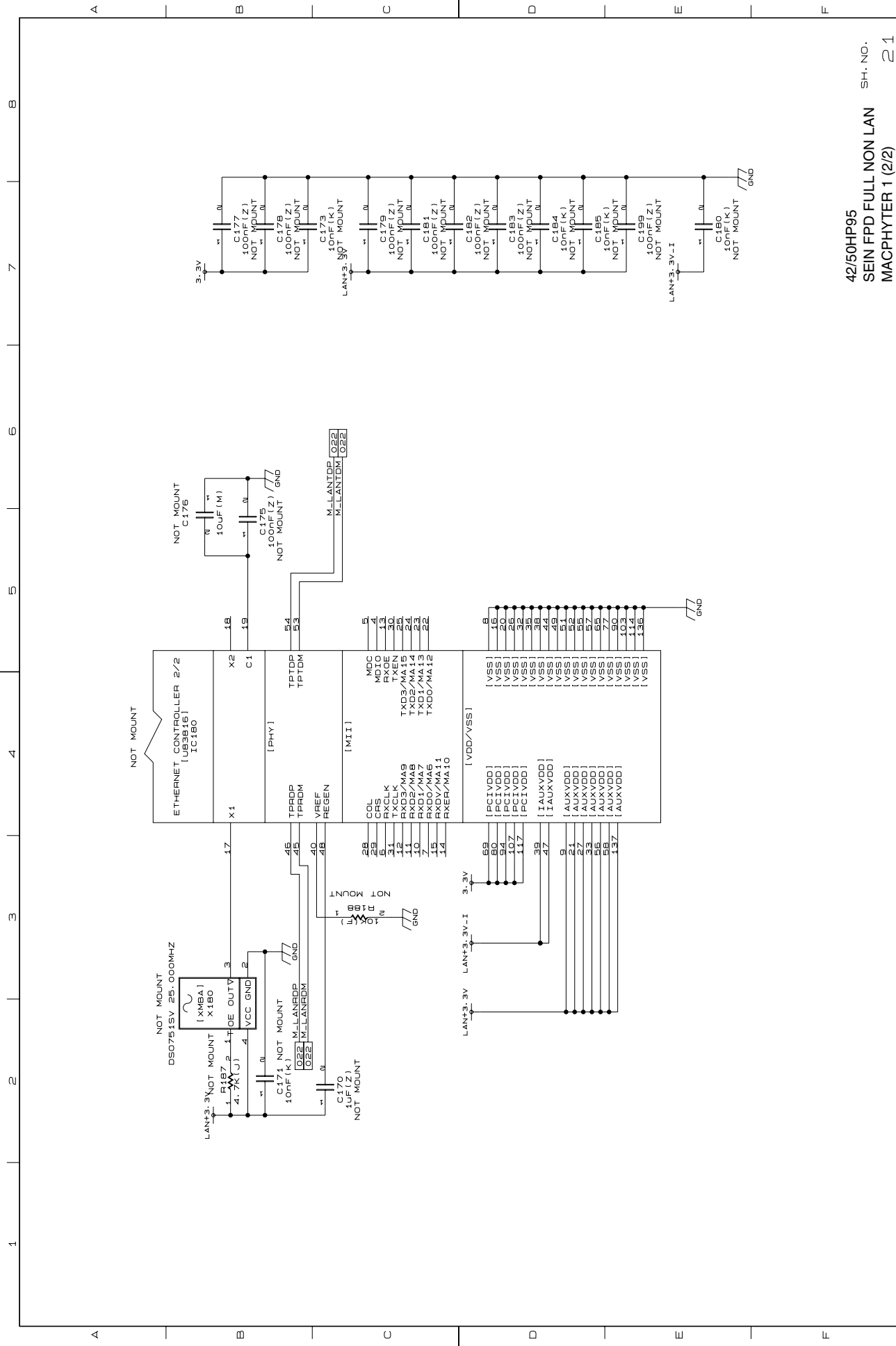
SEIN FPD FULL NON LAN
SH. NO.

MPI POWER 016

(70/128)







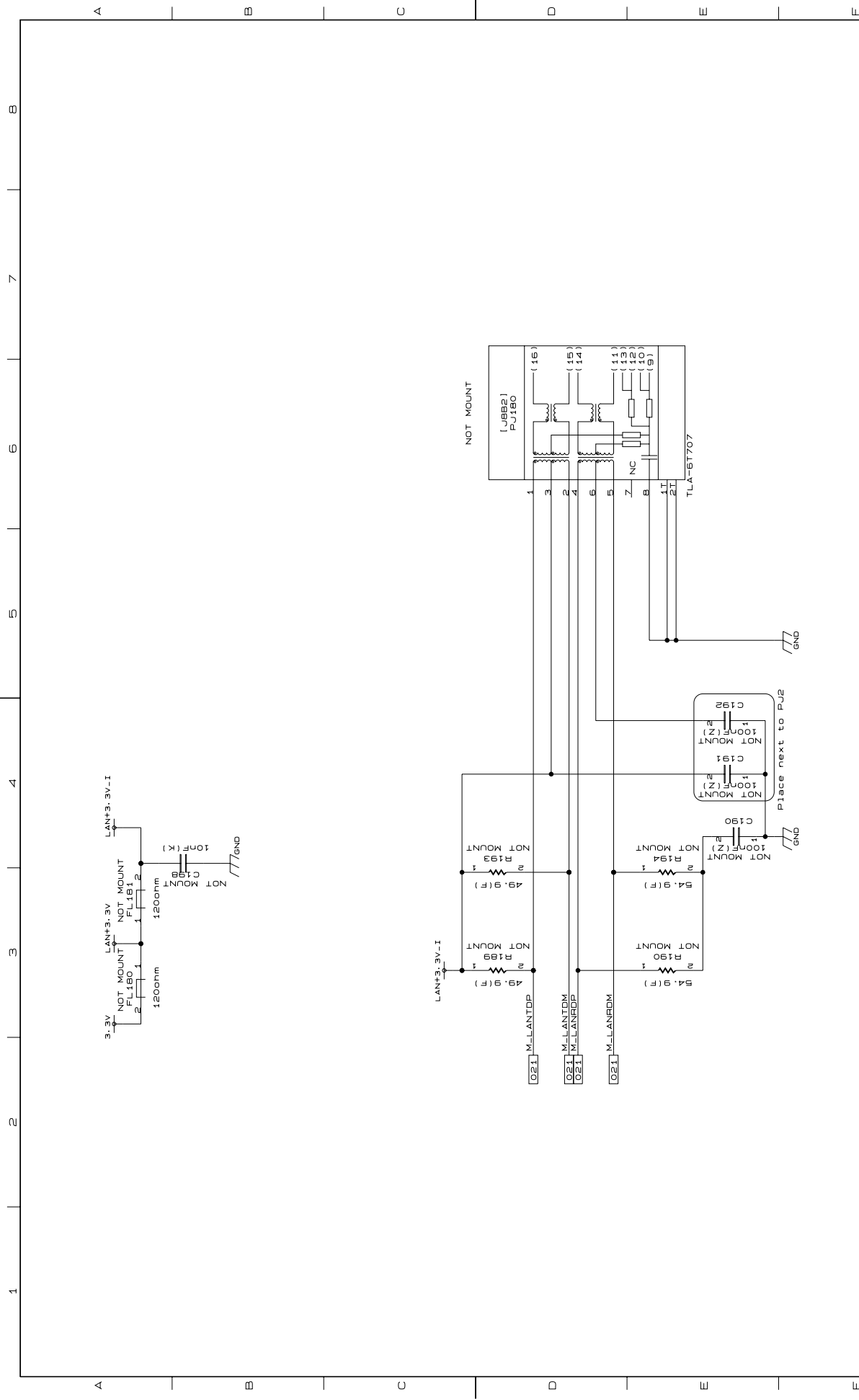
42/50HP95

SEIN FPD FULL NON LAN

is on.

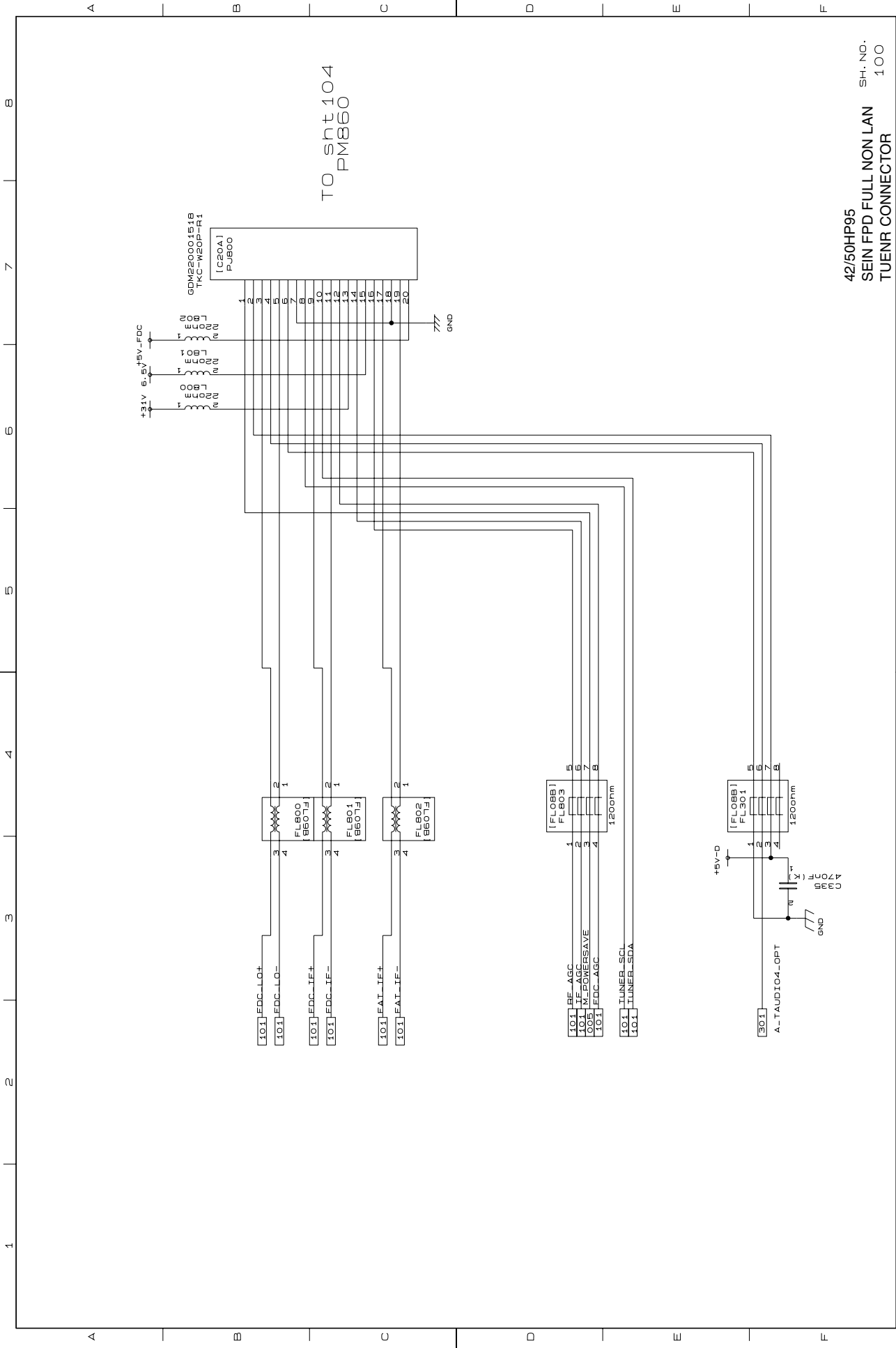
MACPHYTER 1 (2/2) 21

(73/128)



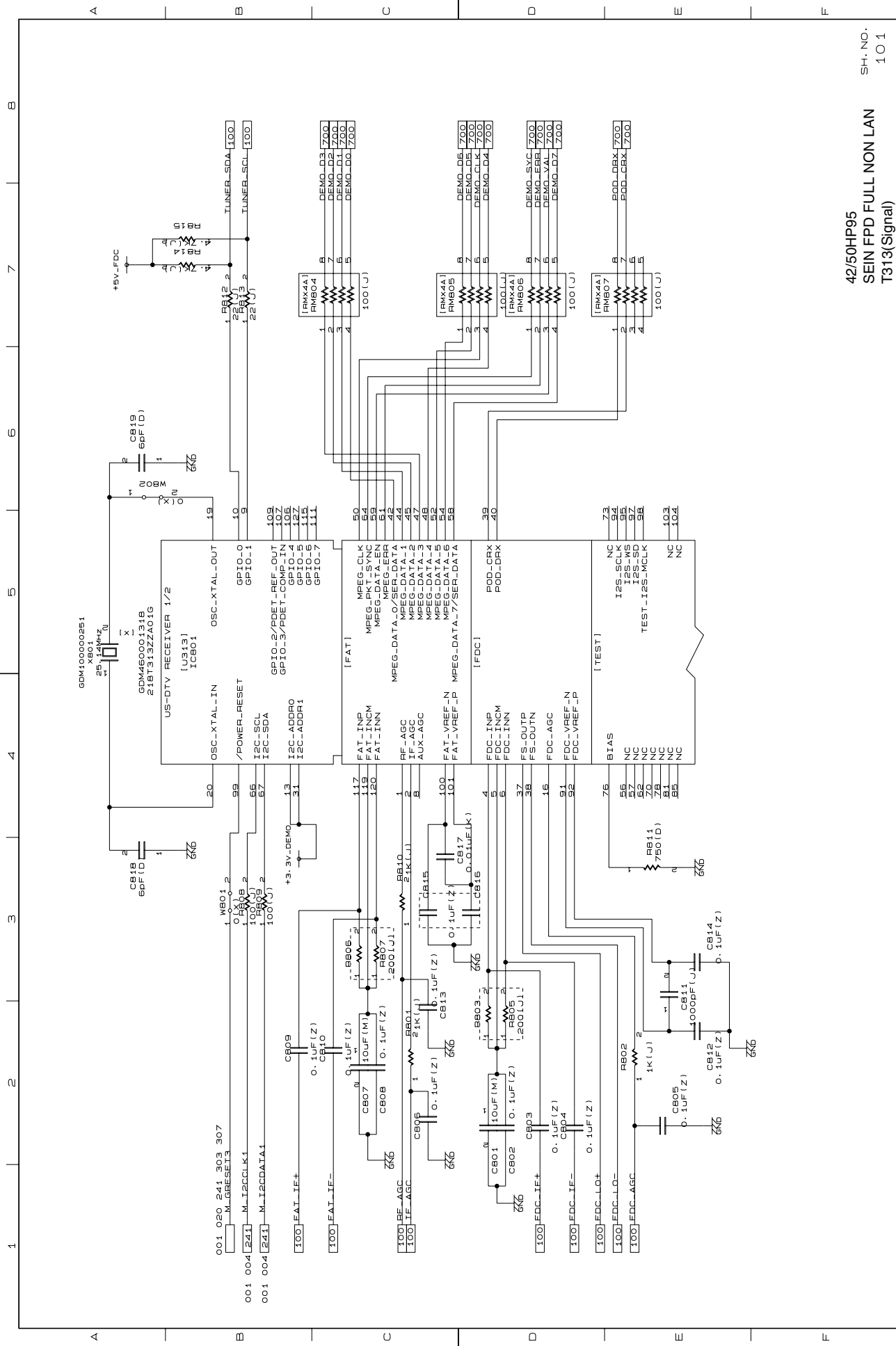
42/50HP95
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RJ45

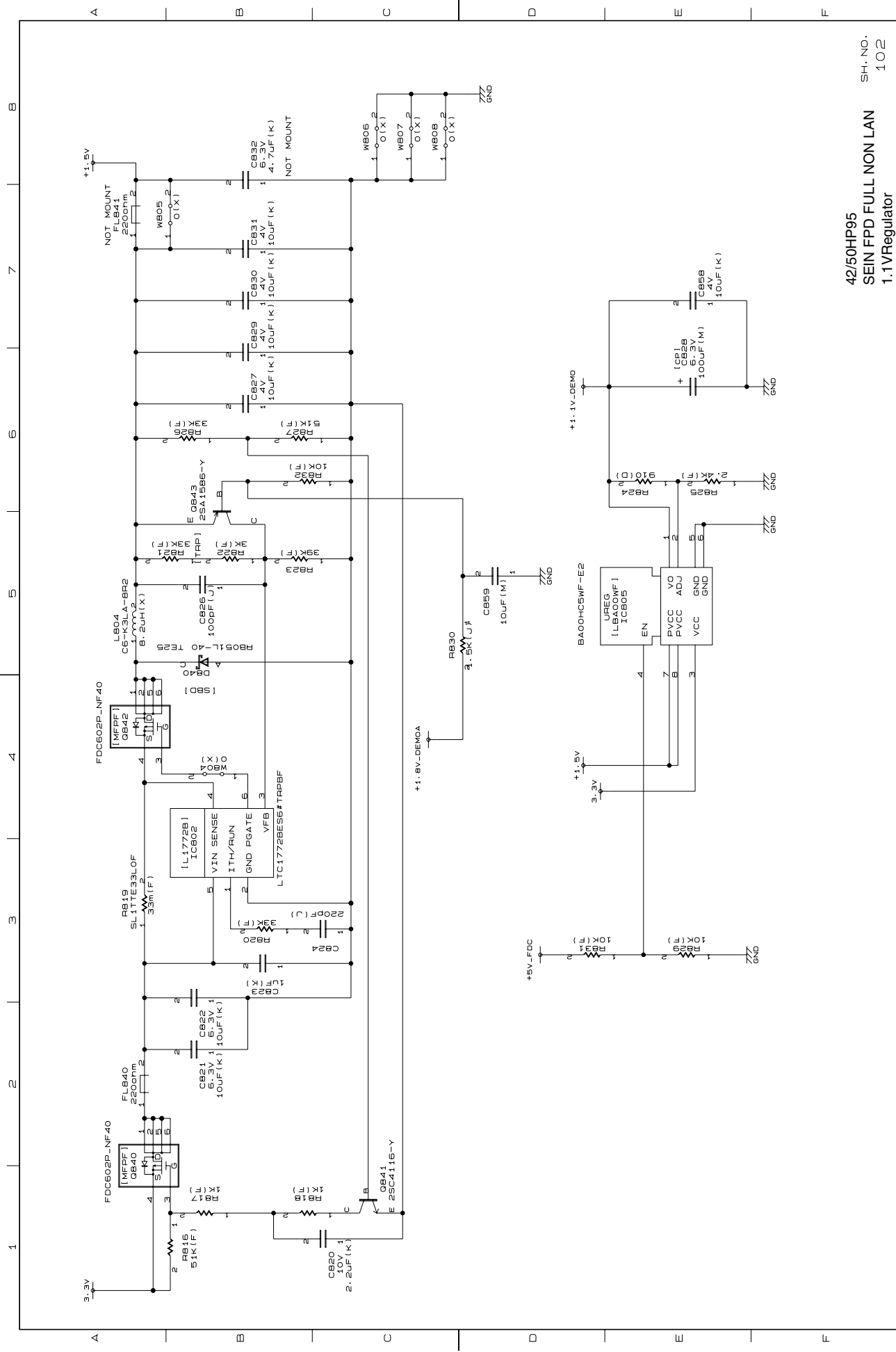
(74/128)



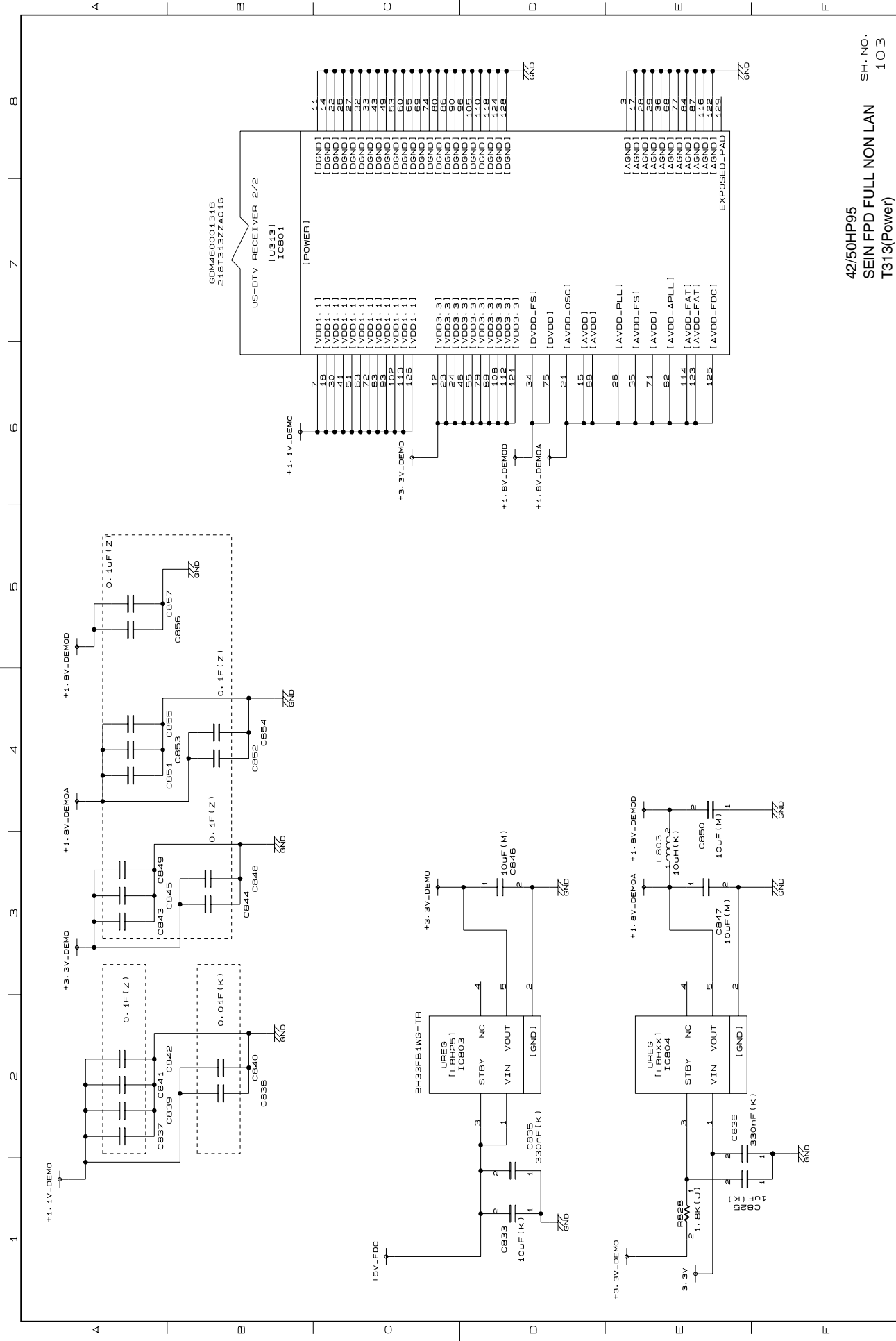
42/50HP95
SEIN FPD FULL NON LAN
TUENR CONNECTOR

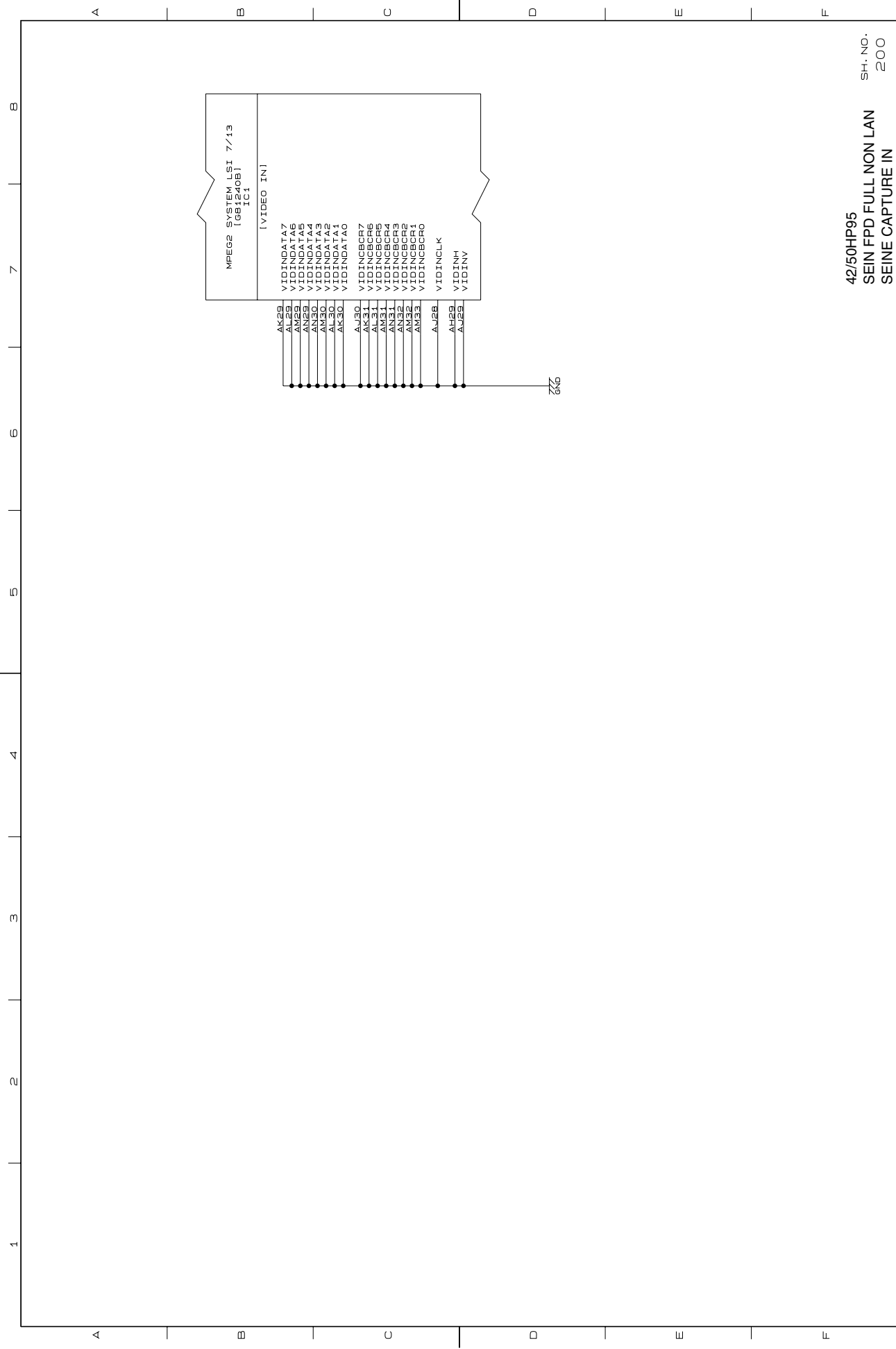
SH. NO.
100

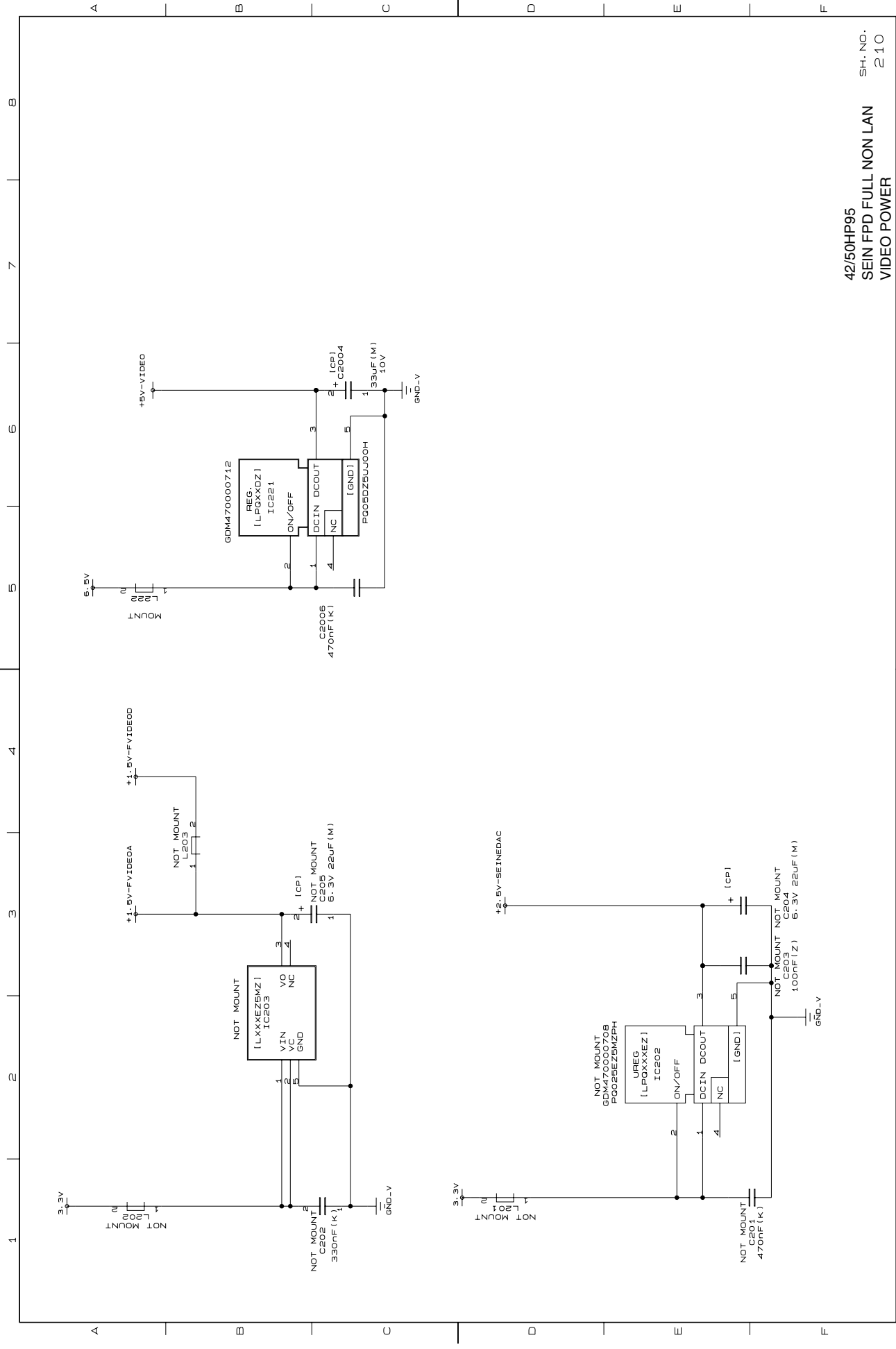


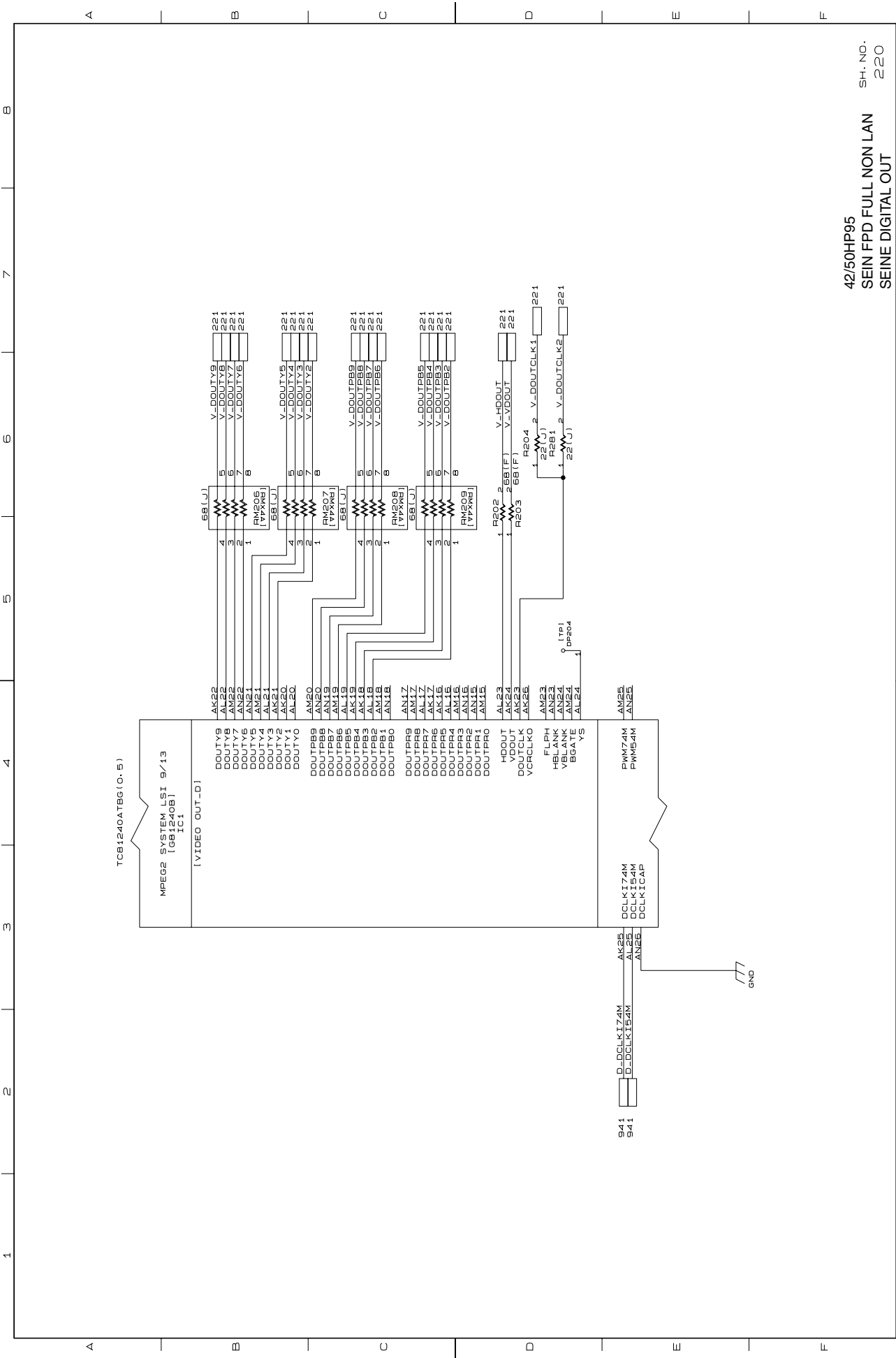


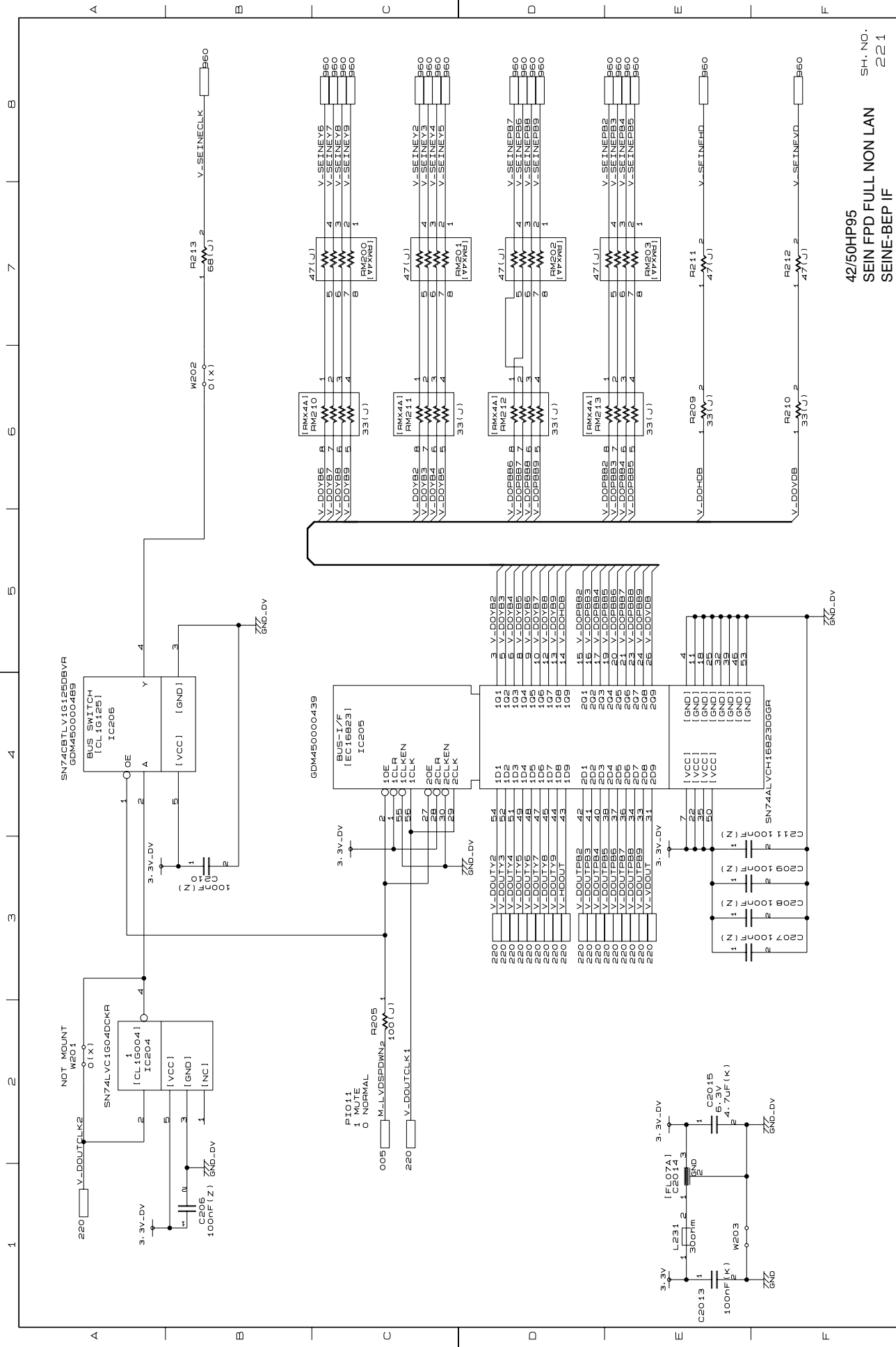
(77/128)









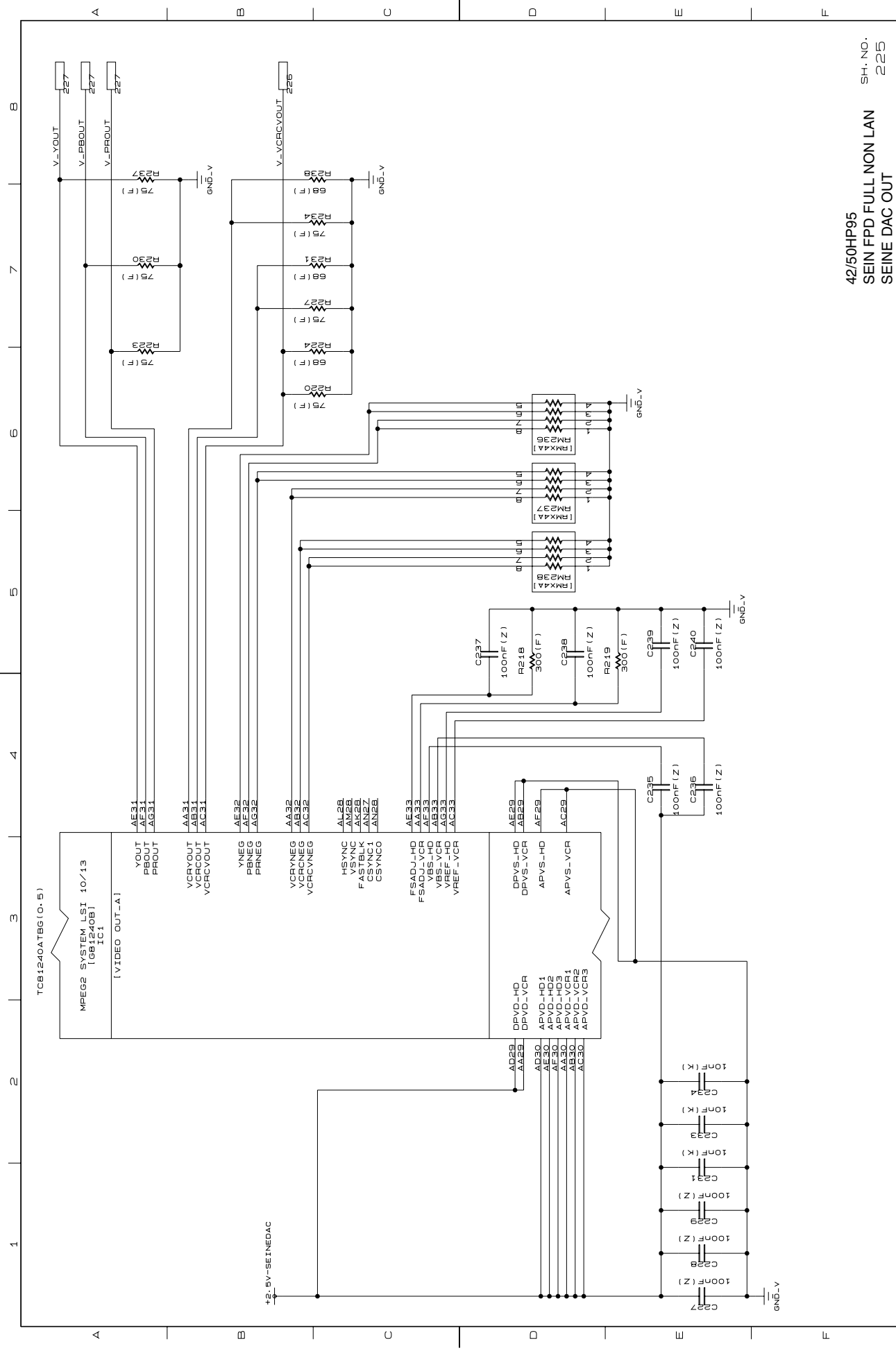


42/50HP95

SEIN FPD FULL NON LAN

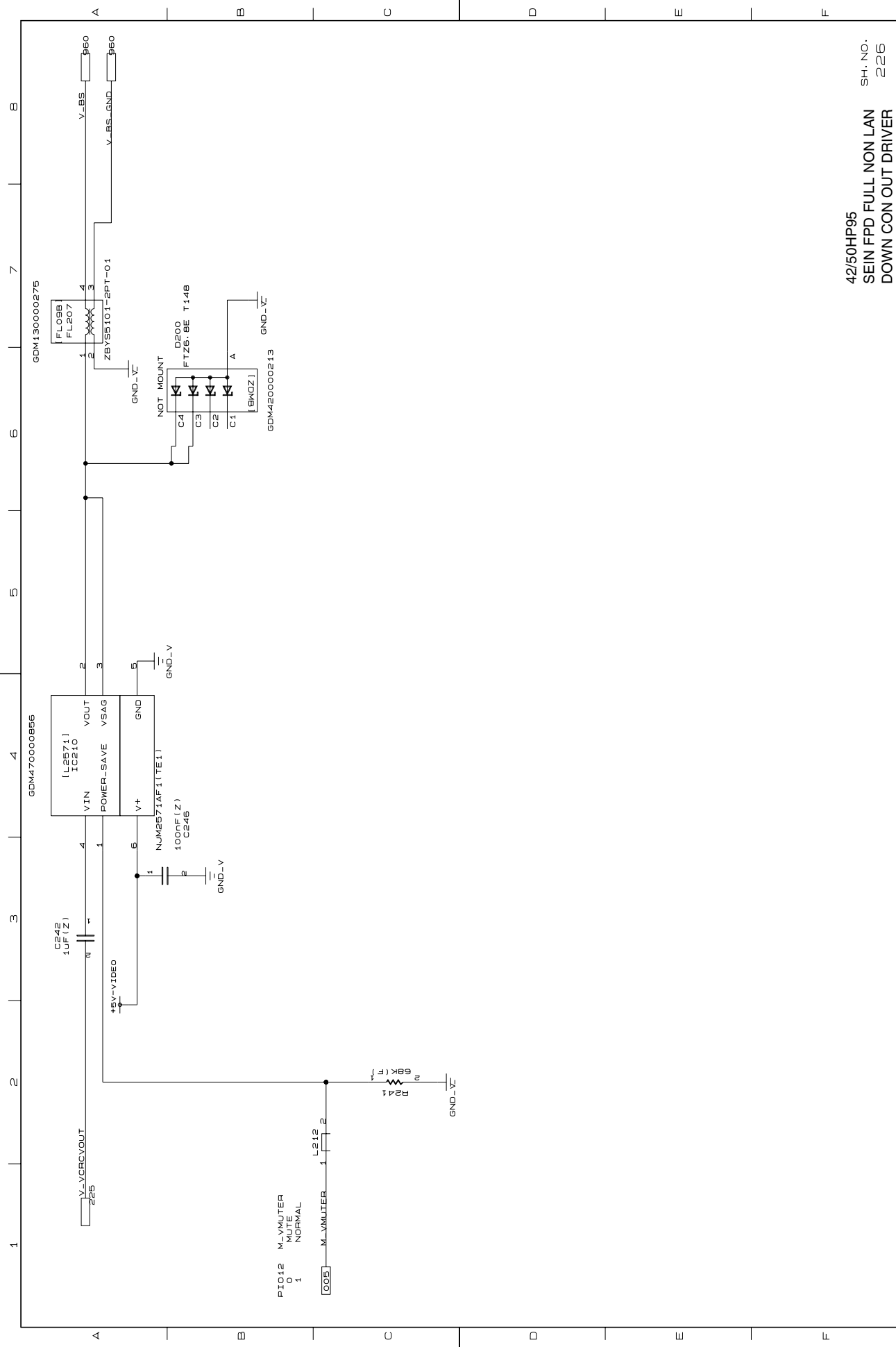
SEINE-BEP IF

(83/128)



42/50HP95
SEIN FPD FULL NON LAN
SEINE DAC OUT

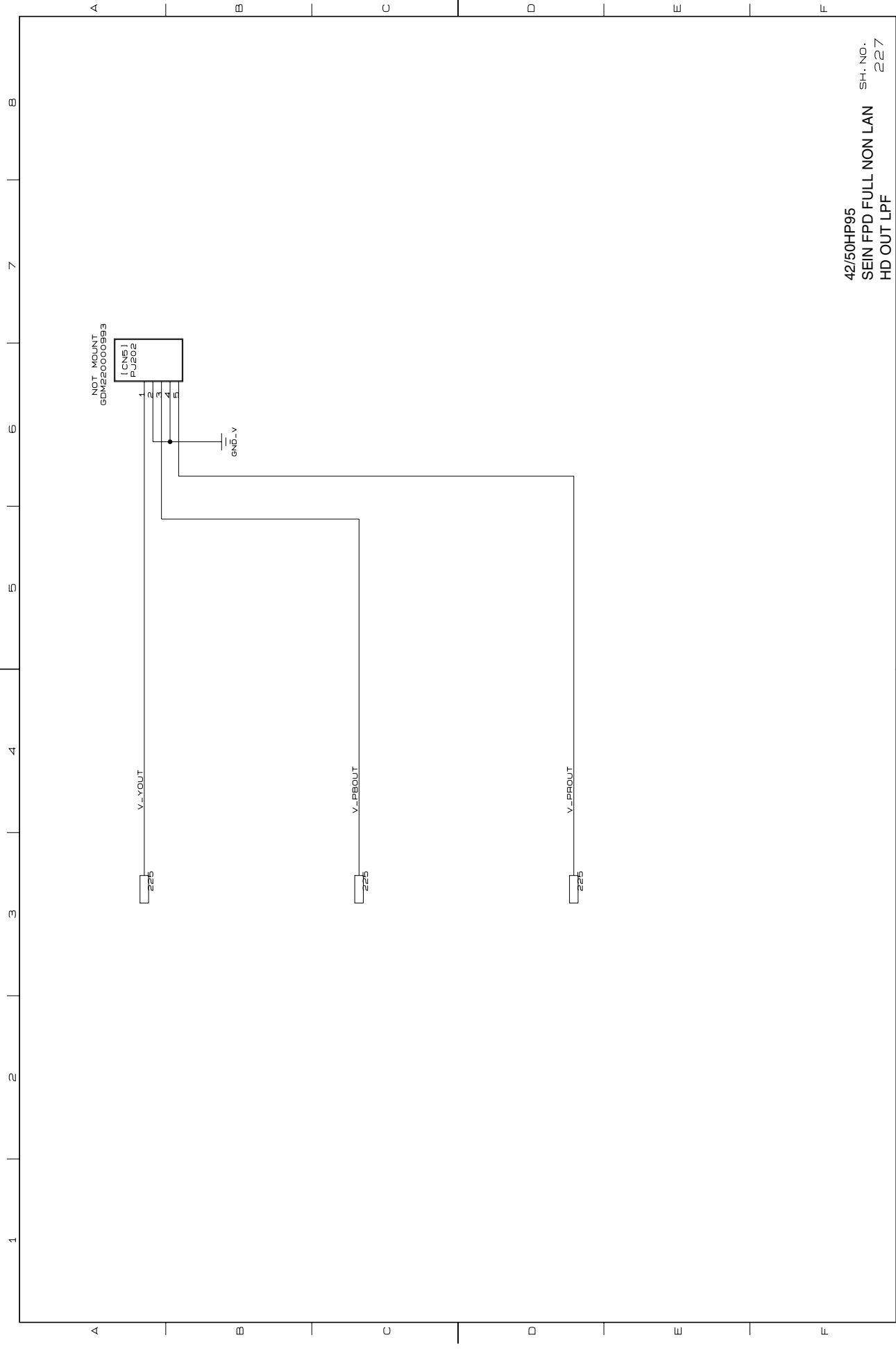
(84/128)



42/50HP95

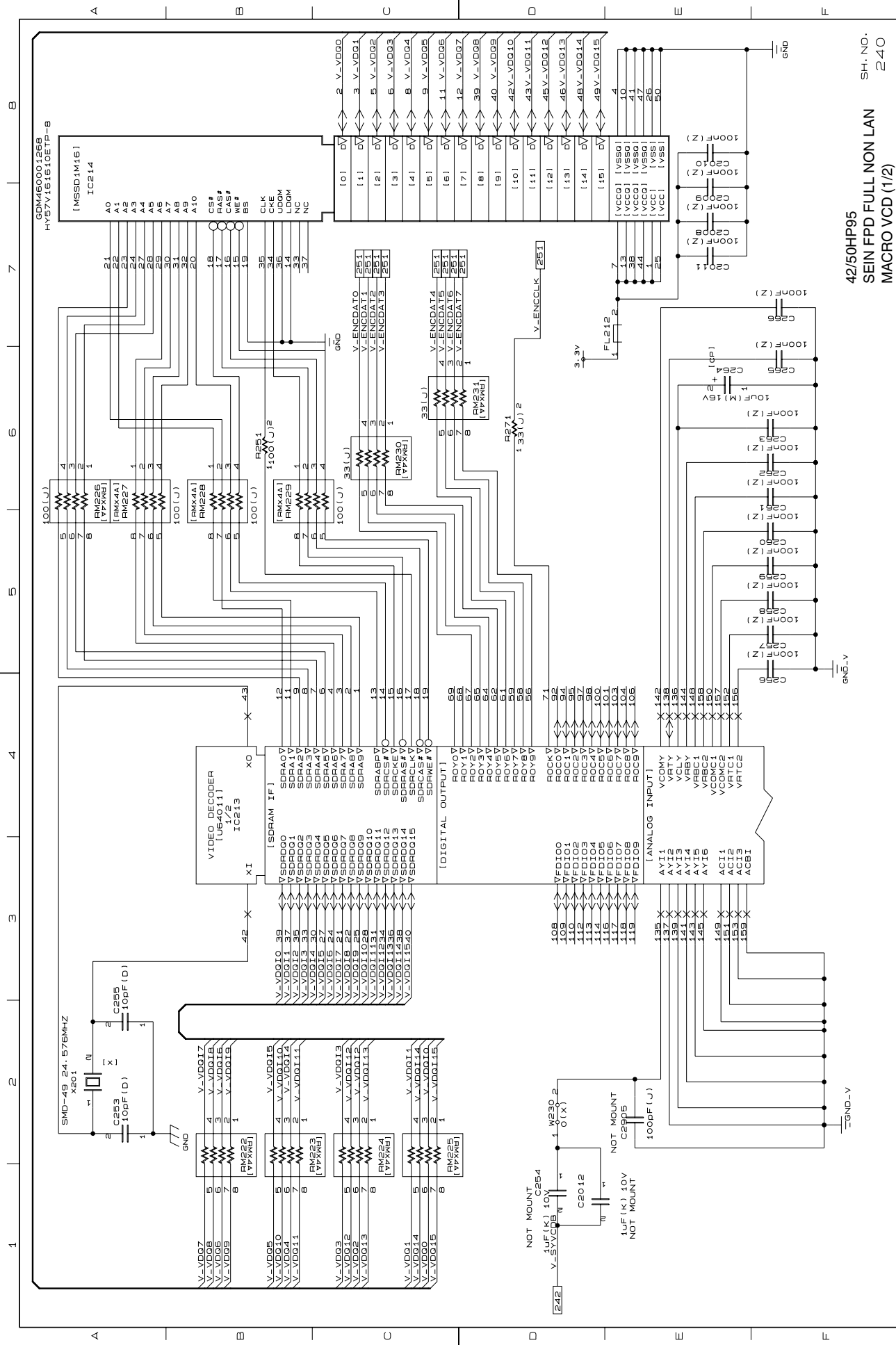
SEIN FPD FULL NON LAN
DOWN CON OUT DRIVER

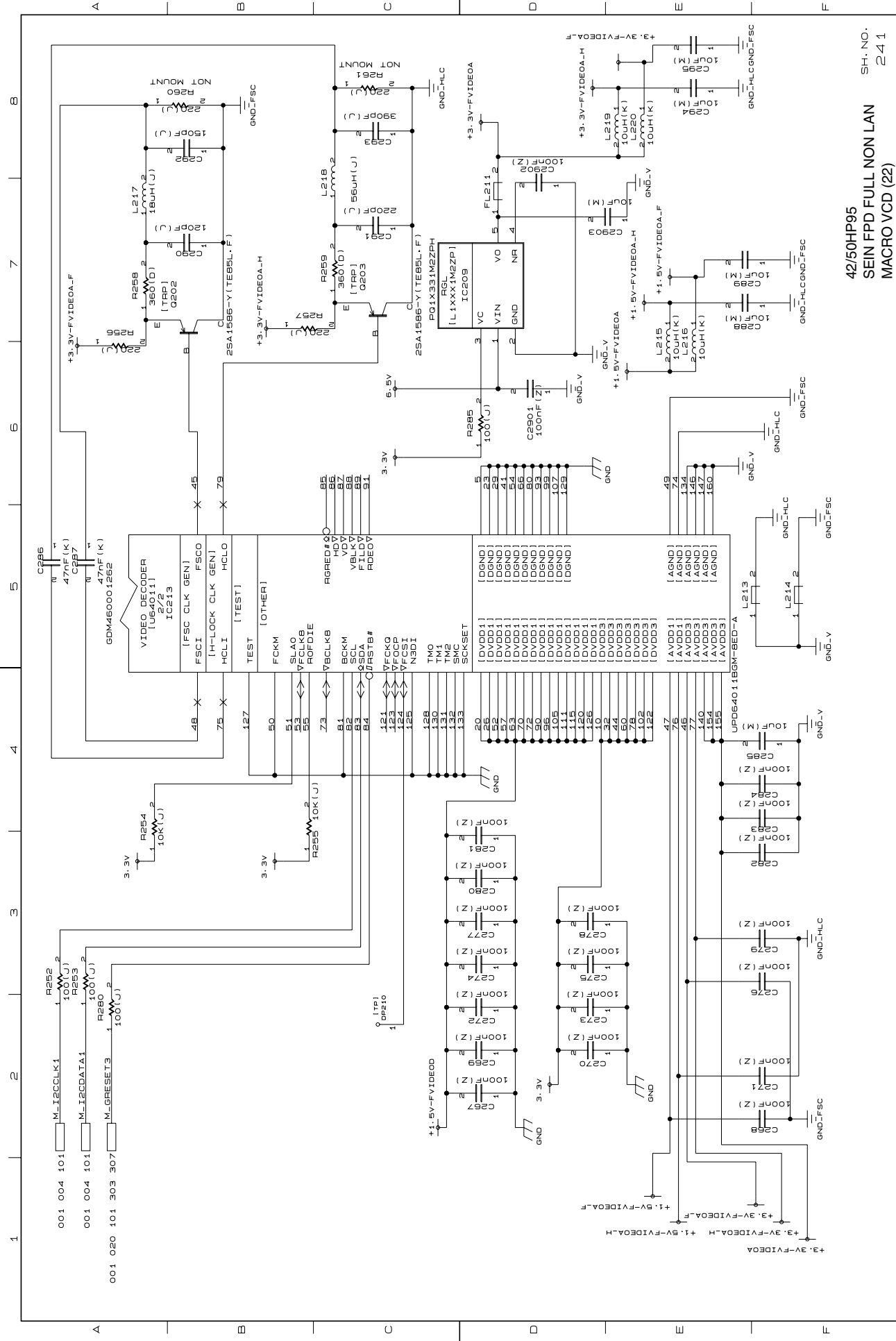
(85/128)



42/50HP95
SEIN FPD FULL NON LAN
HD OUT LPF

SH. NO.
227



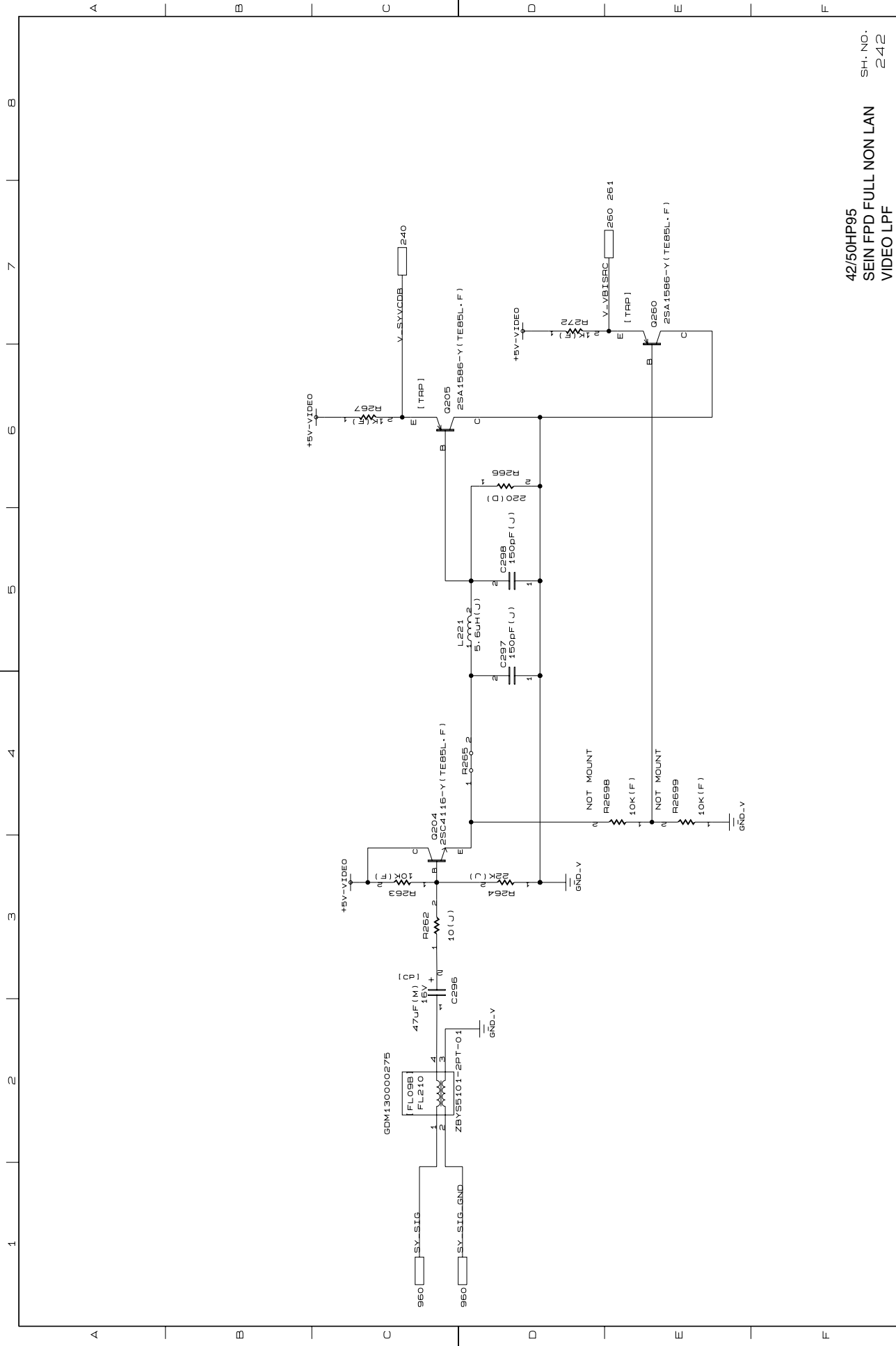


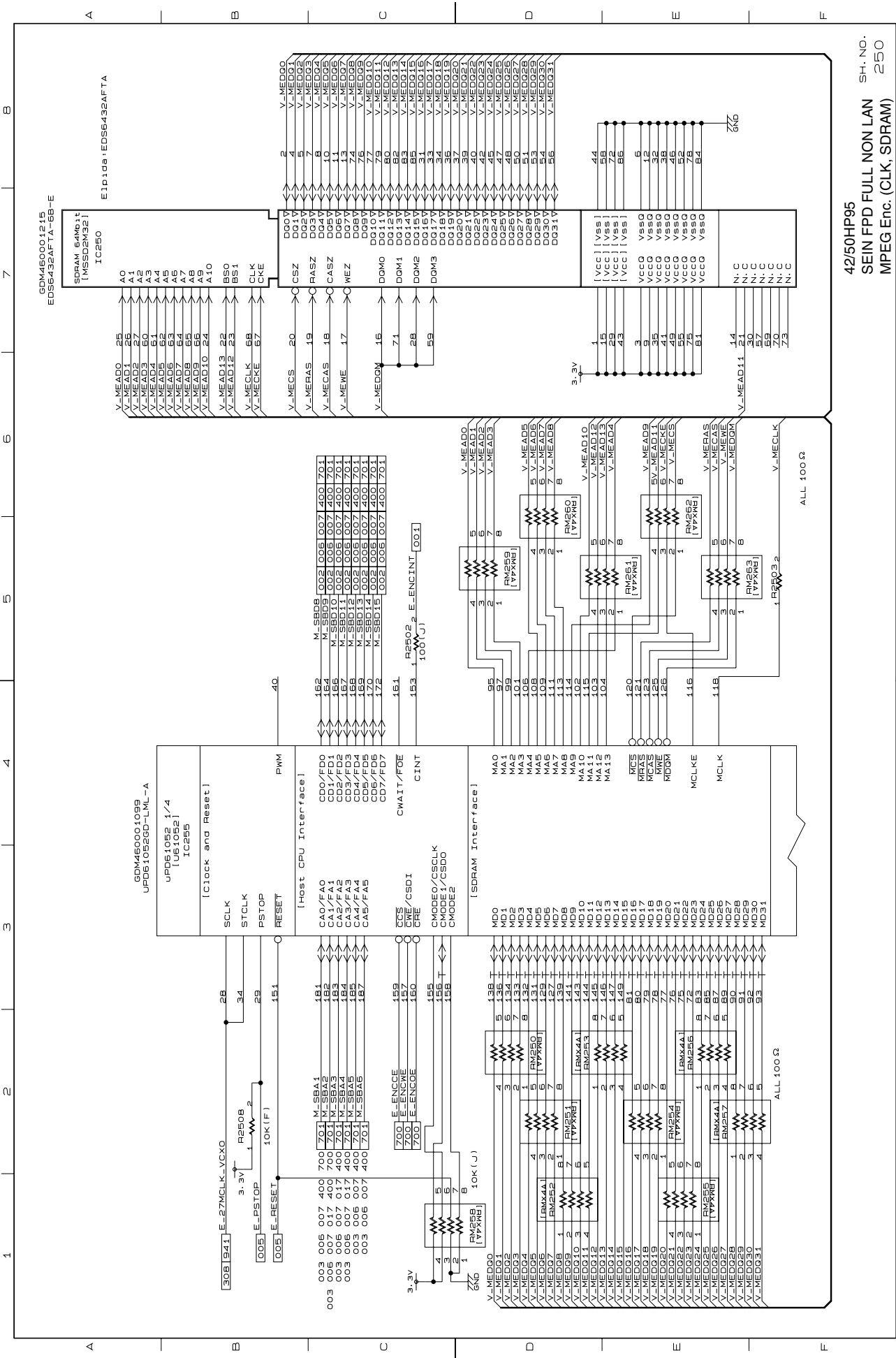
42/50HP95

SEIN FPD FULL NON LAN SH. NO.

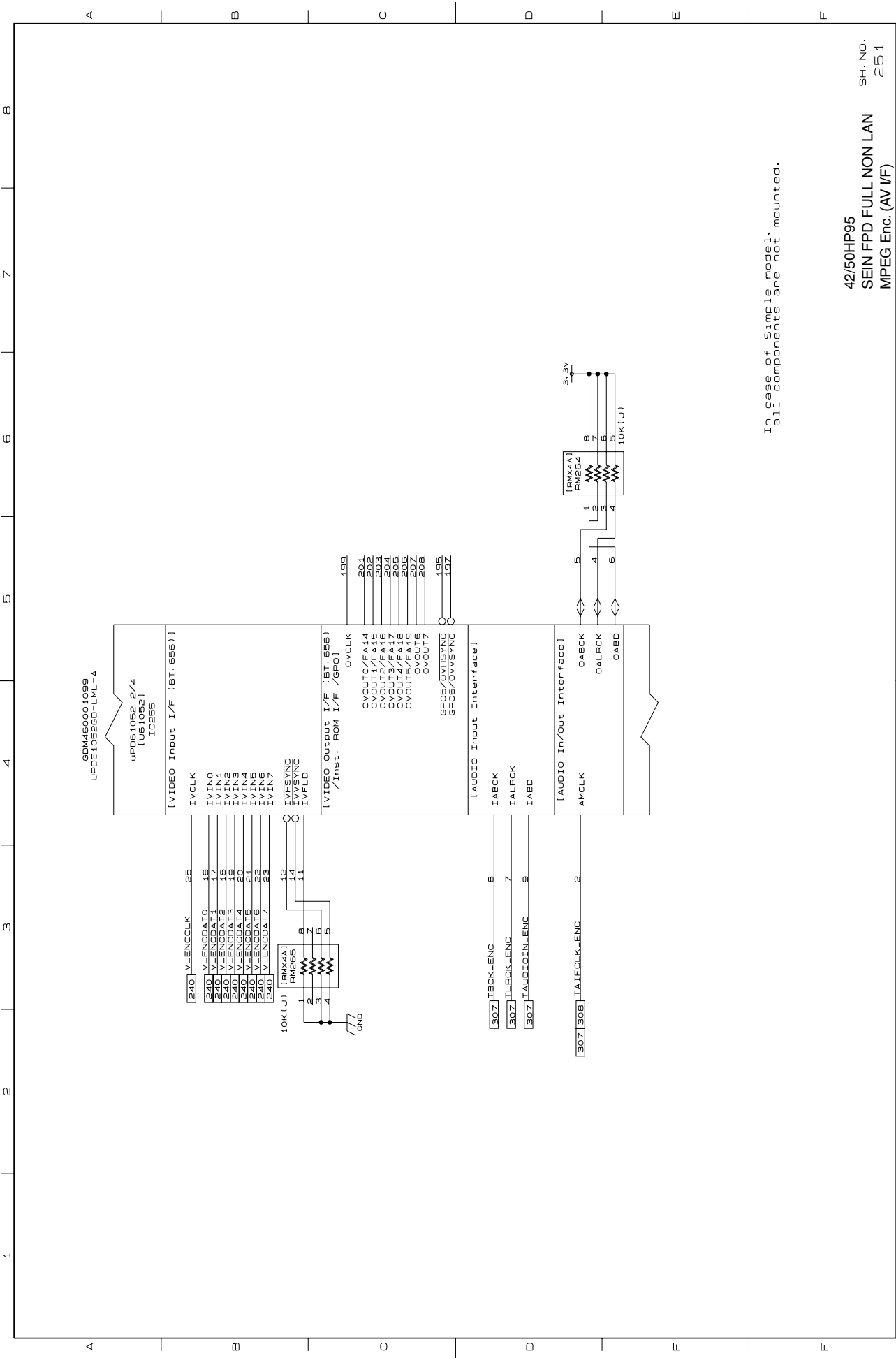
MACRO VCD (22) 241

(88/128)



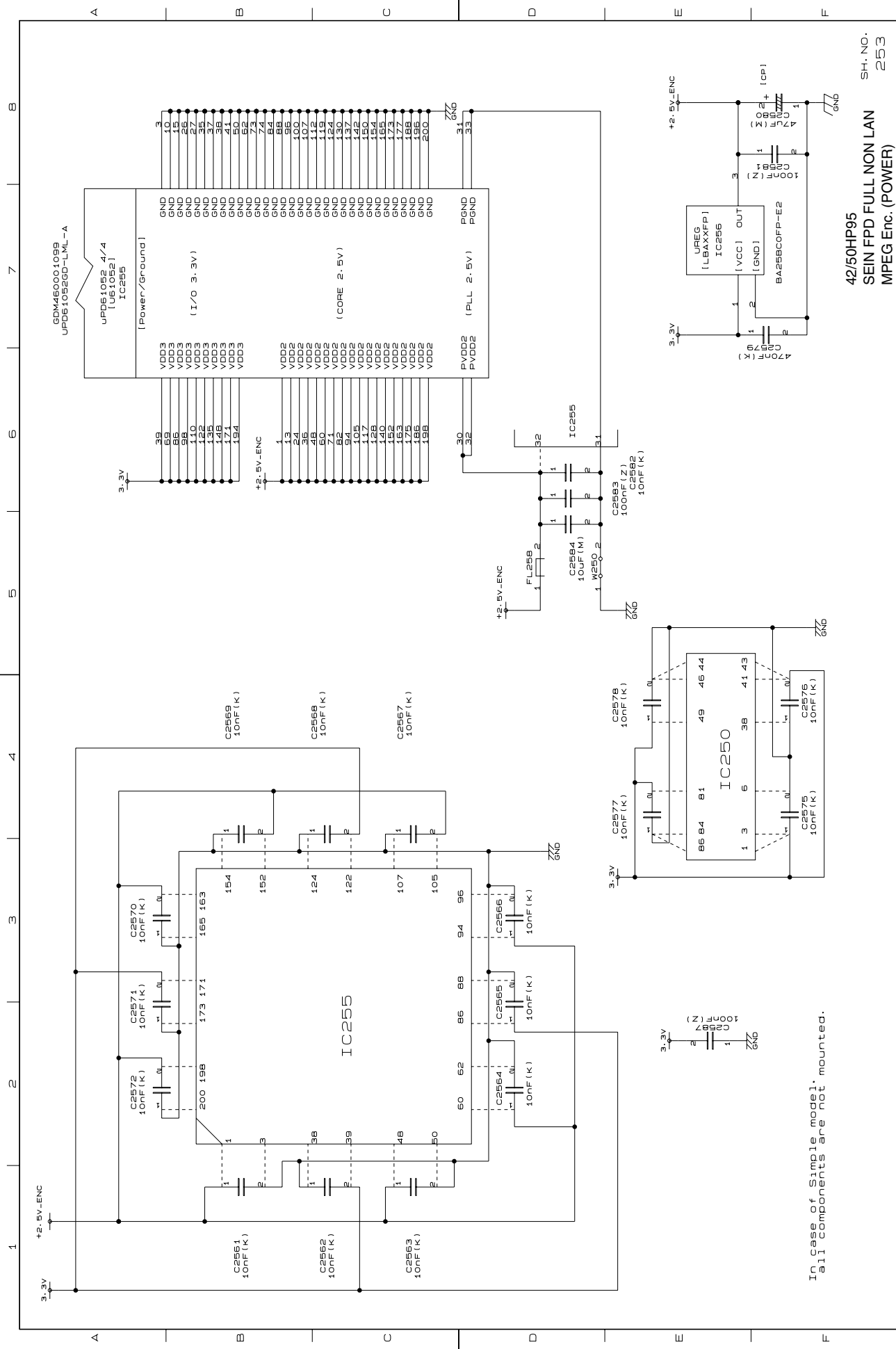


42/50HP95
SEIN FPD FULL NON LAN
MPEG Enc. (CLK, SDRAM)



42/50HP95
SEIN FPD FULL NON LAN
MPEG Enc. (AV I/F)

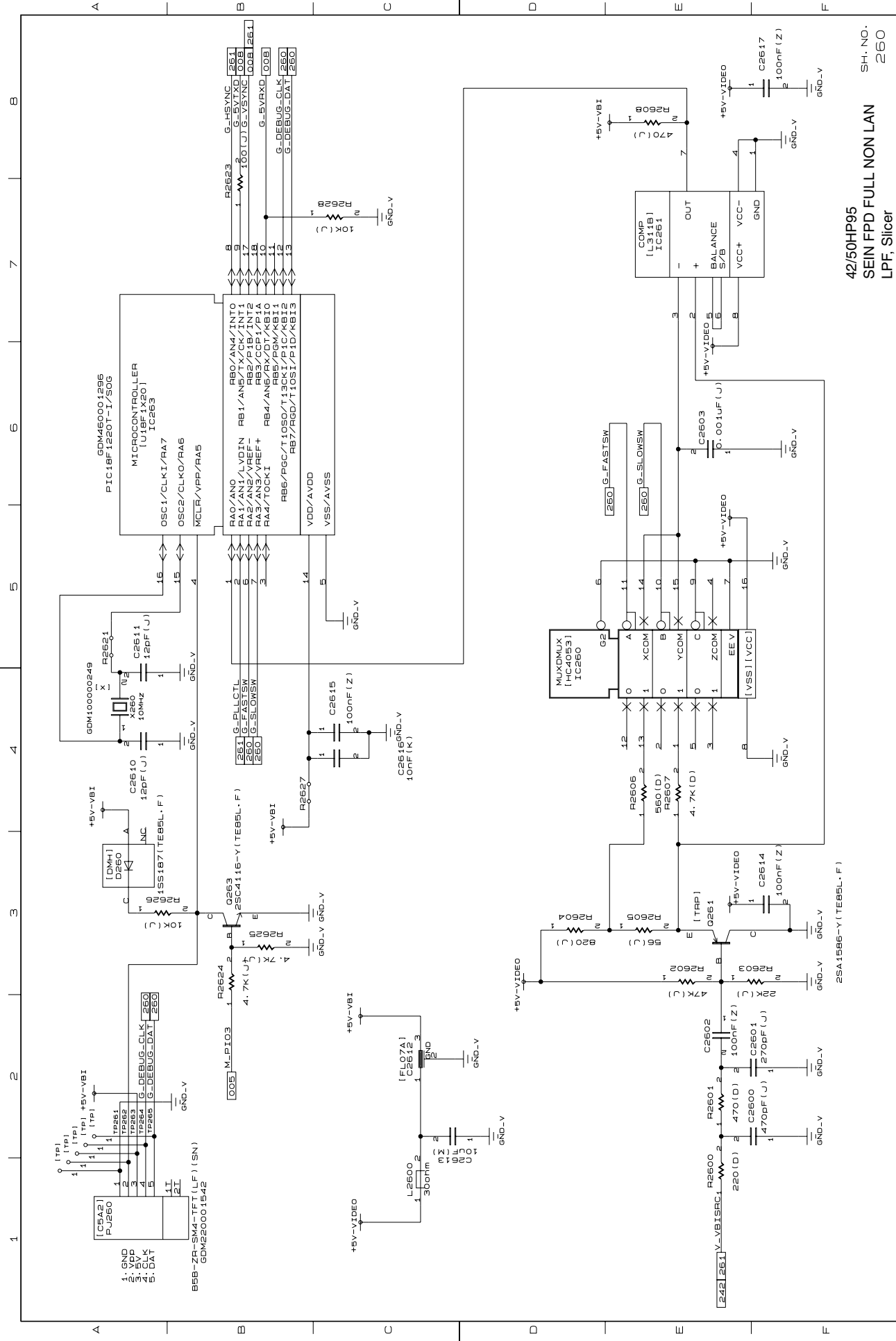
SH. NO.
251

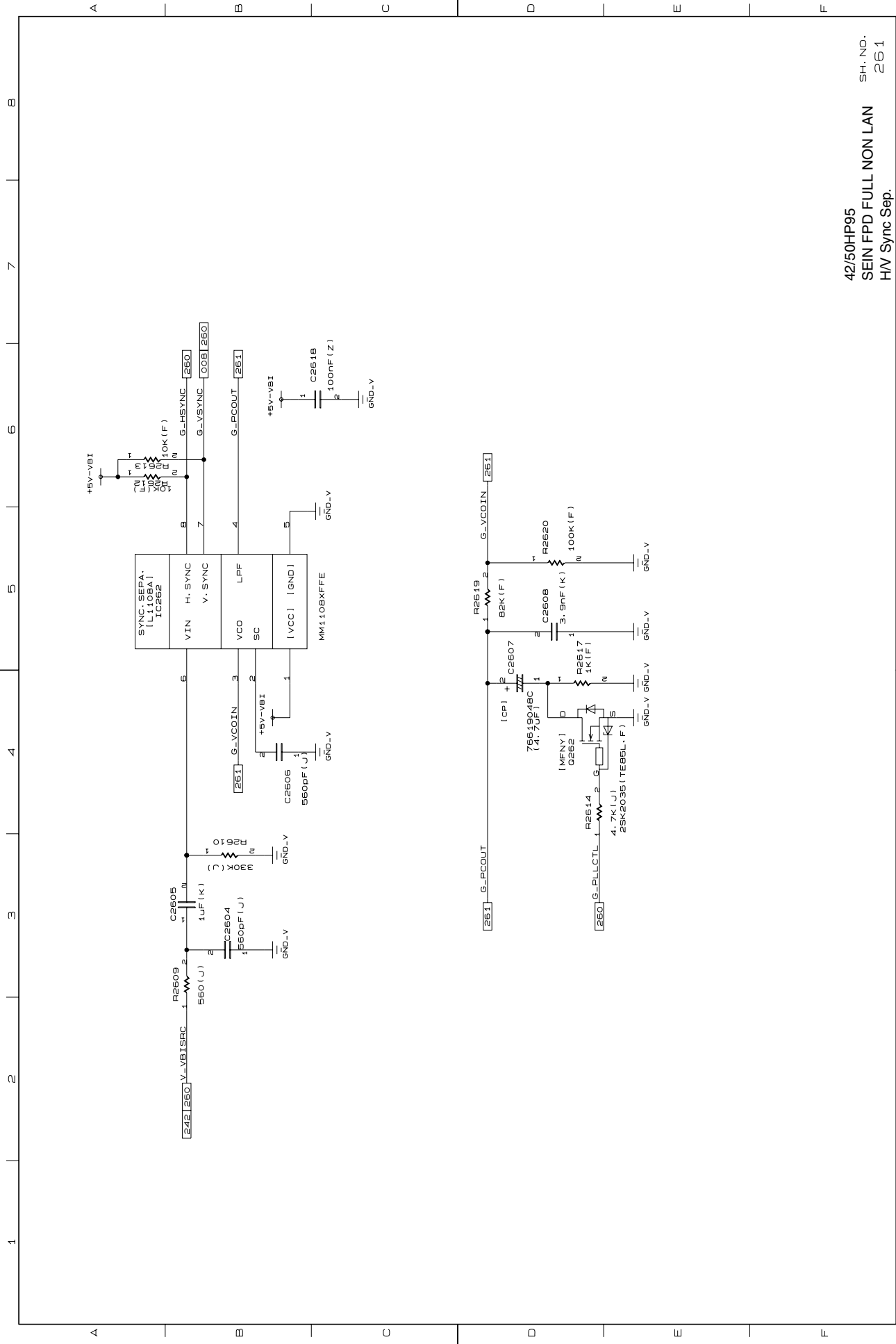


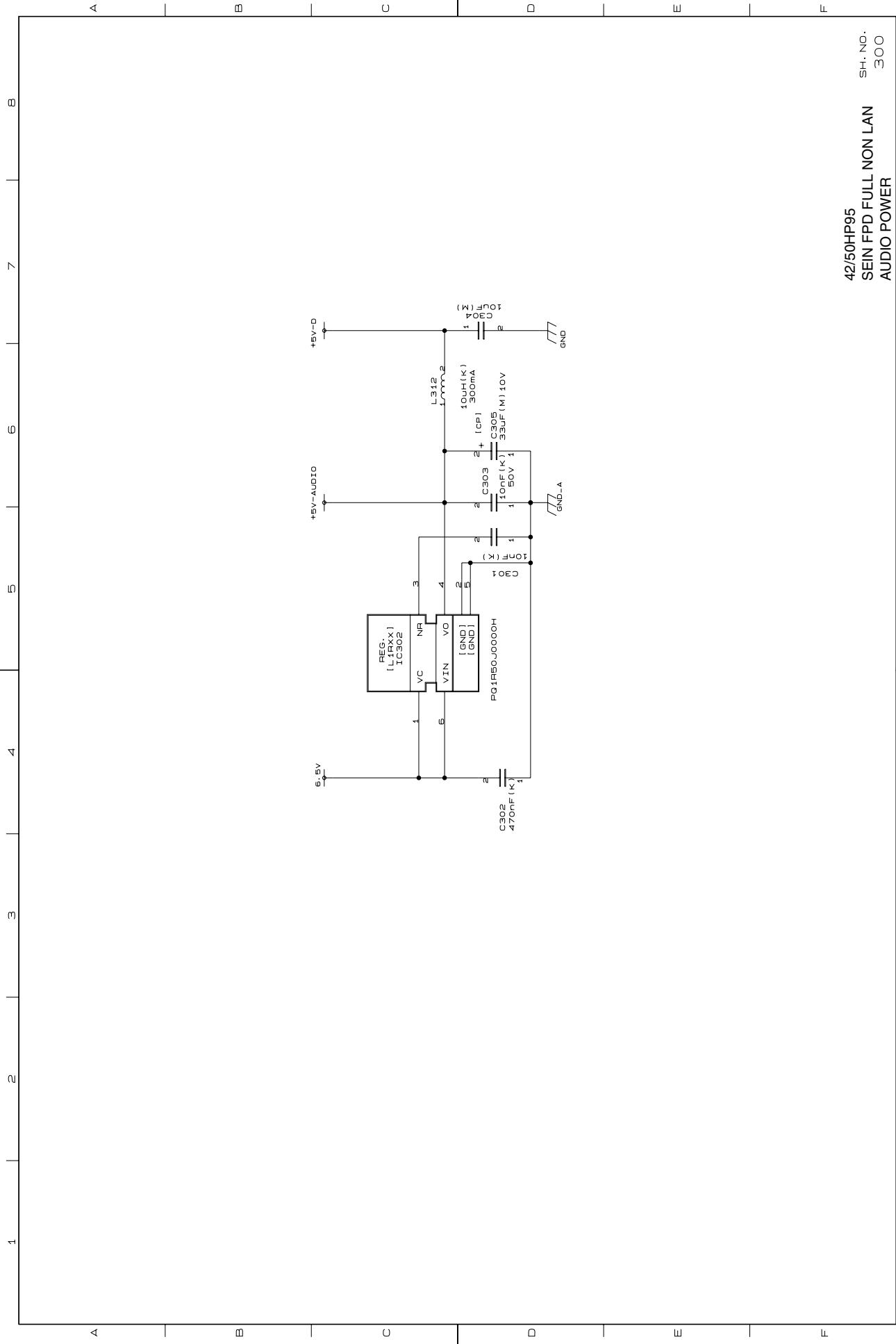
In case of Simple model.
all components are not mounted.

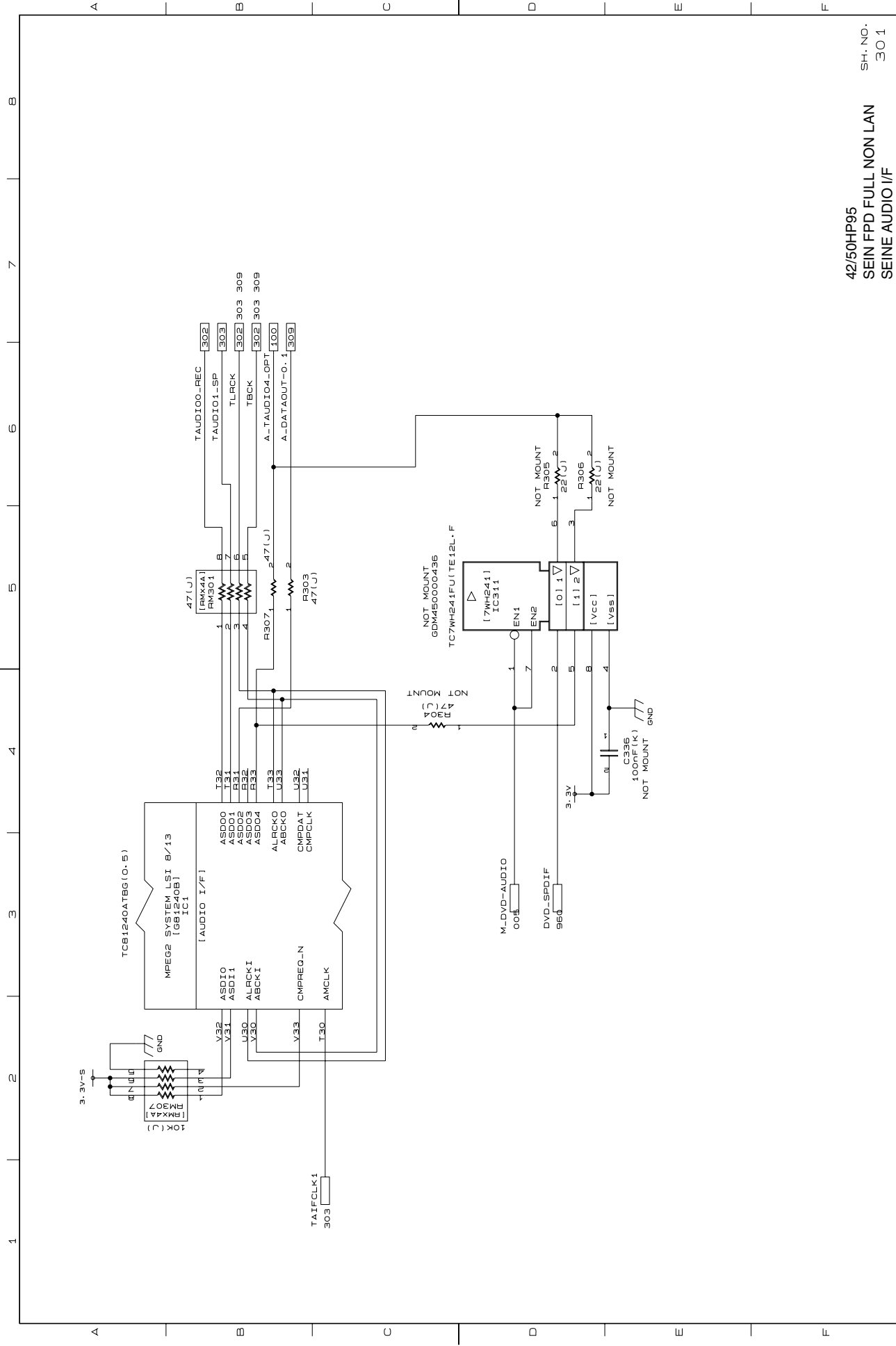
42/50HP95
SEIN FPD FULL NON LAN
MPEG Enc. (POWER)

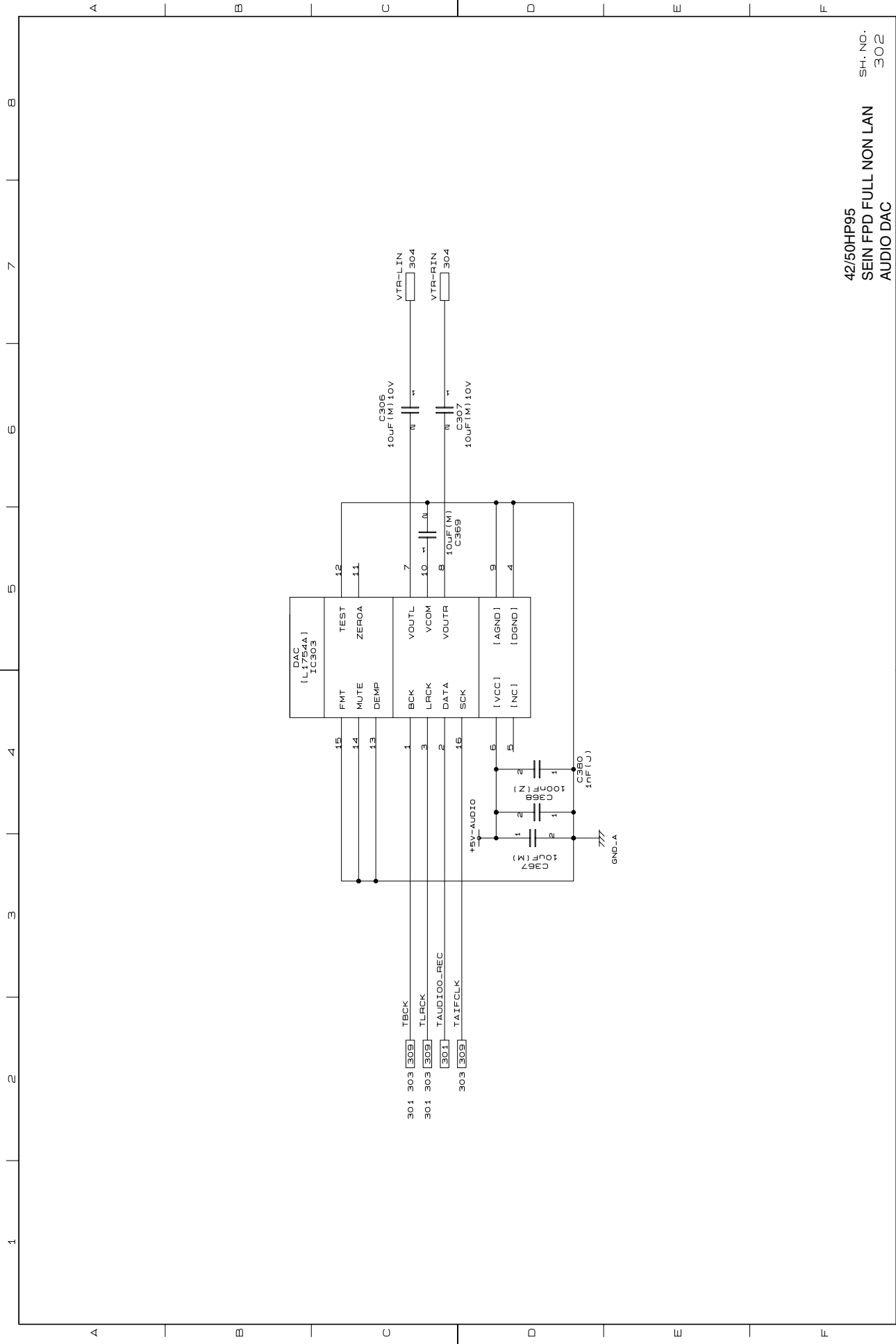
(93/128)

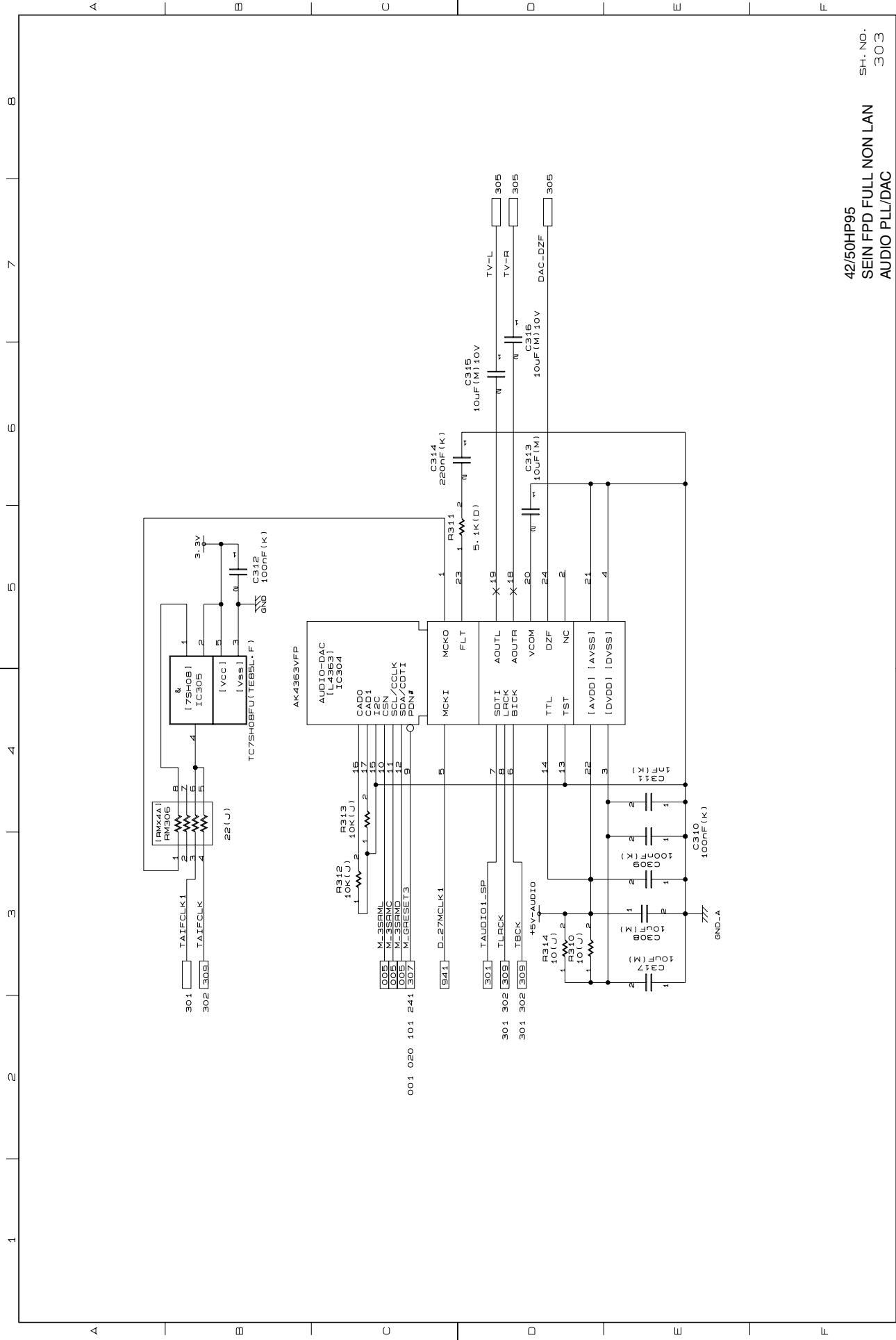


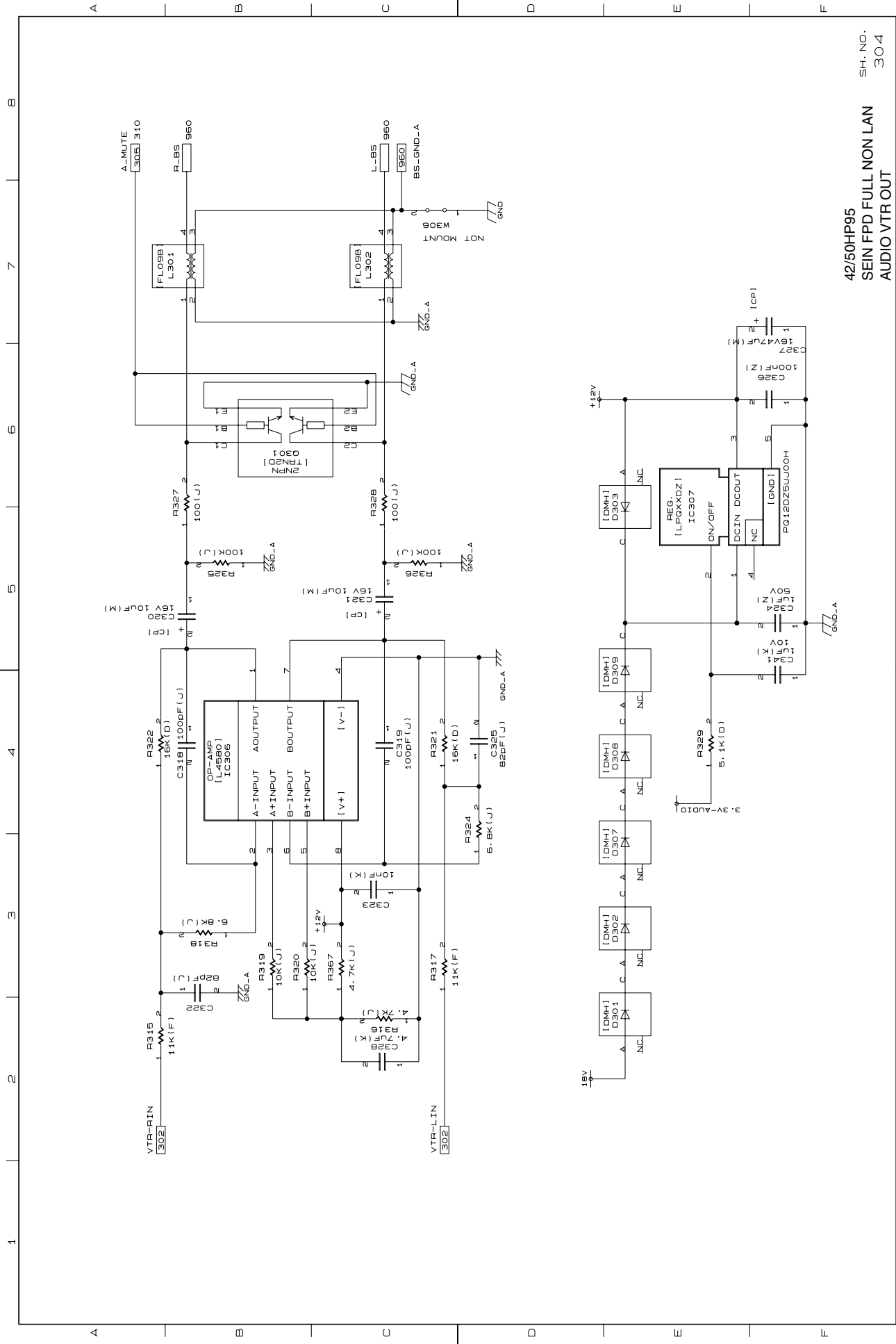








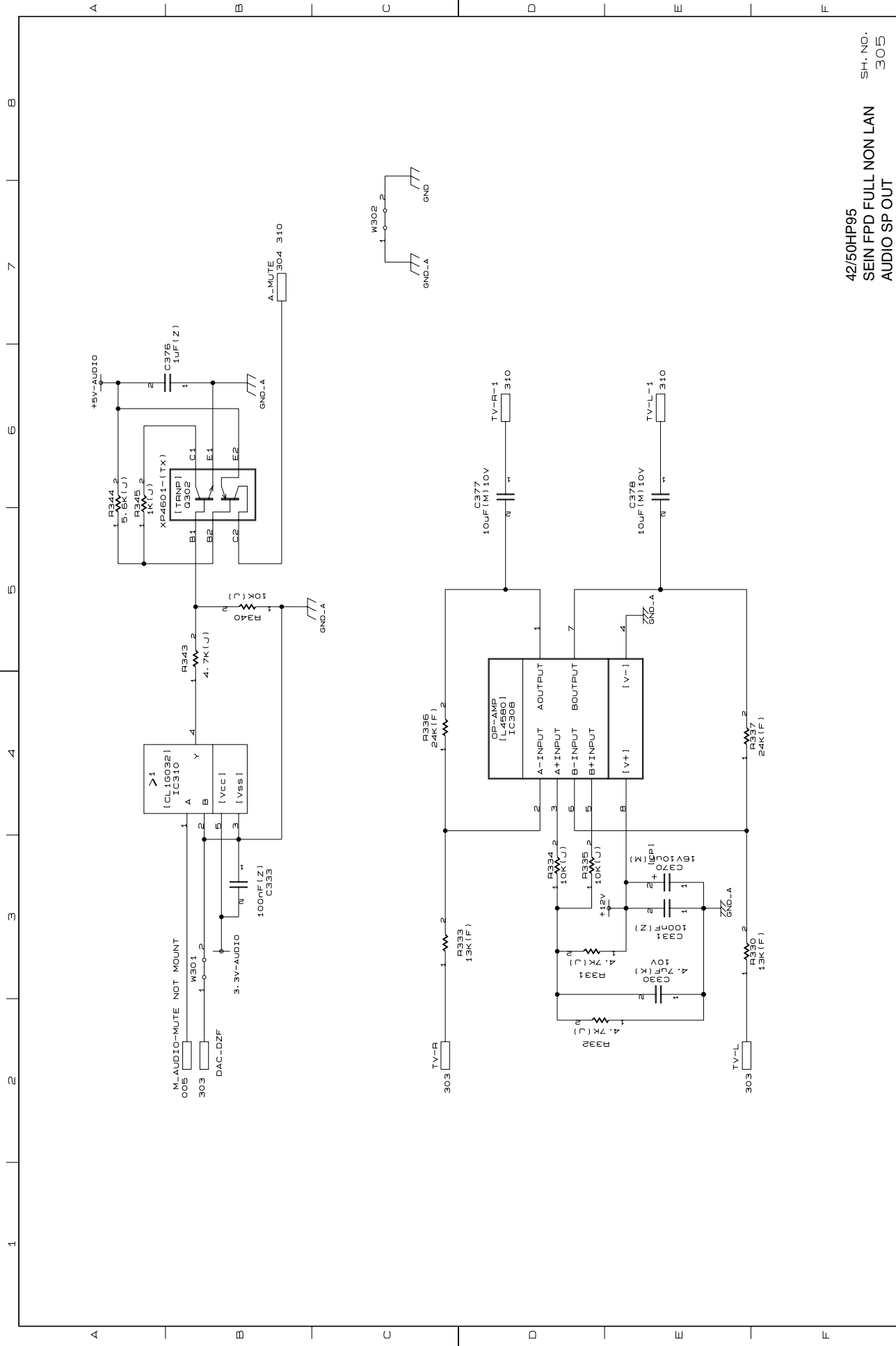


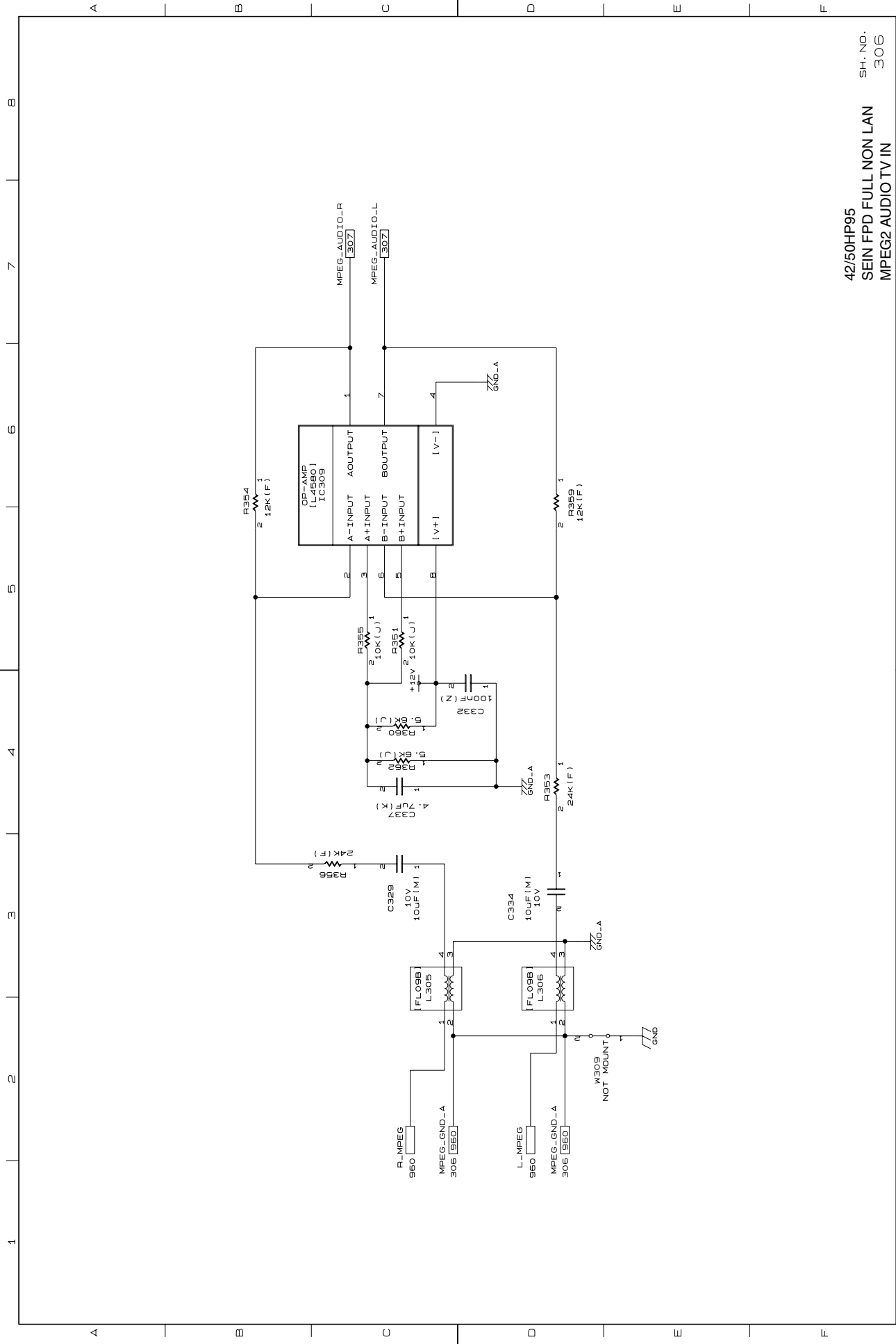


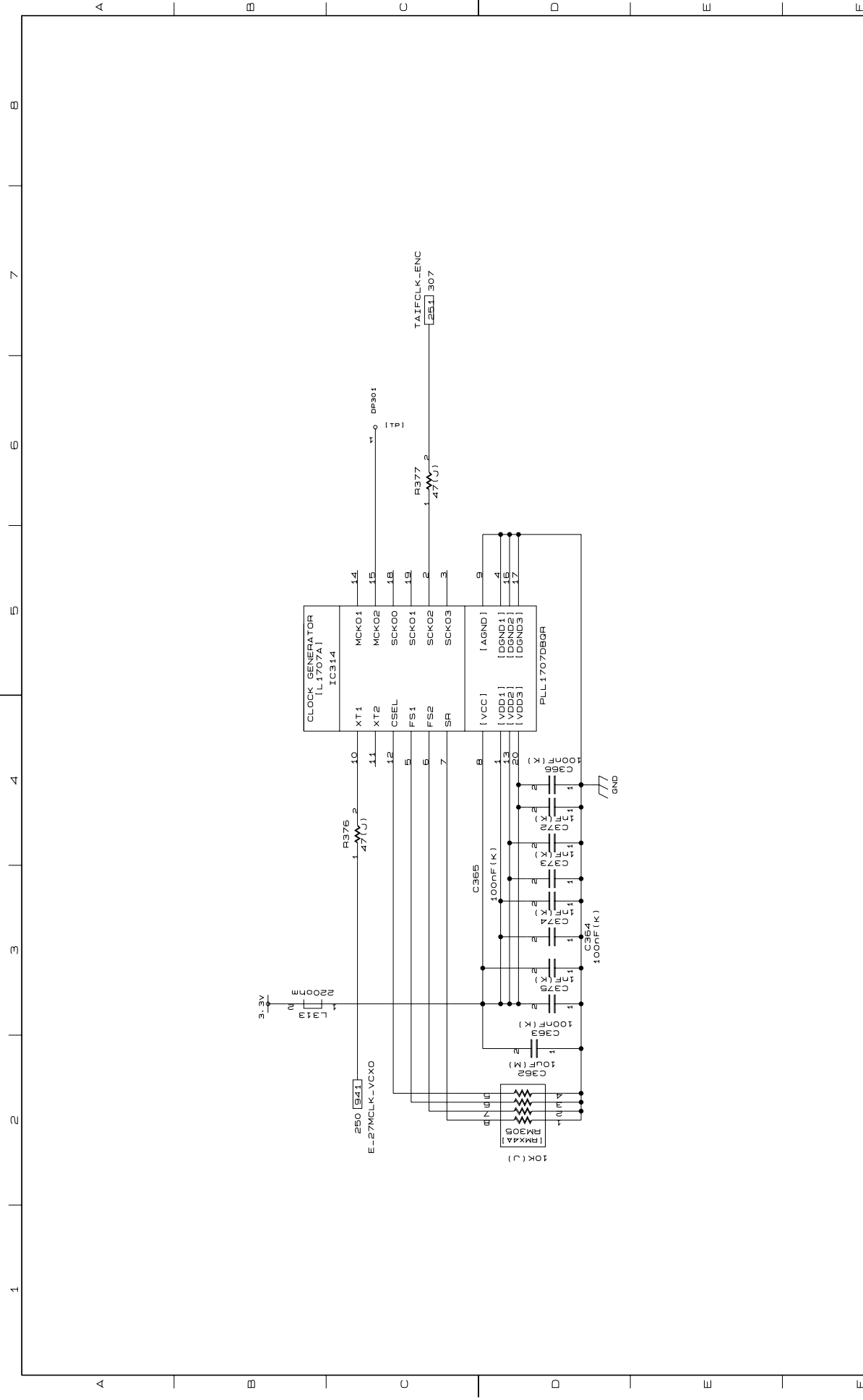
42/50HP95
SEIN FPD FULL NON LAN
AUDIO VTR OUT

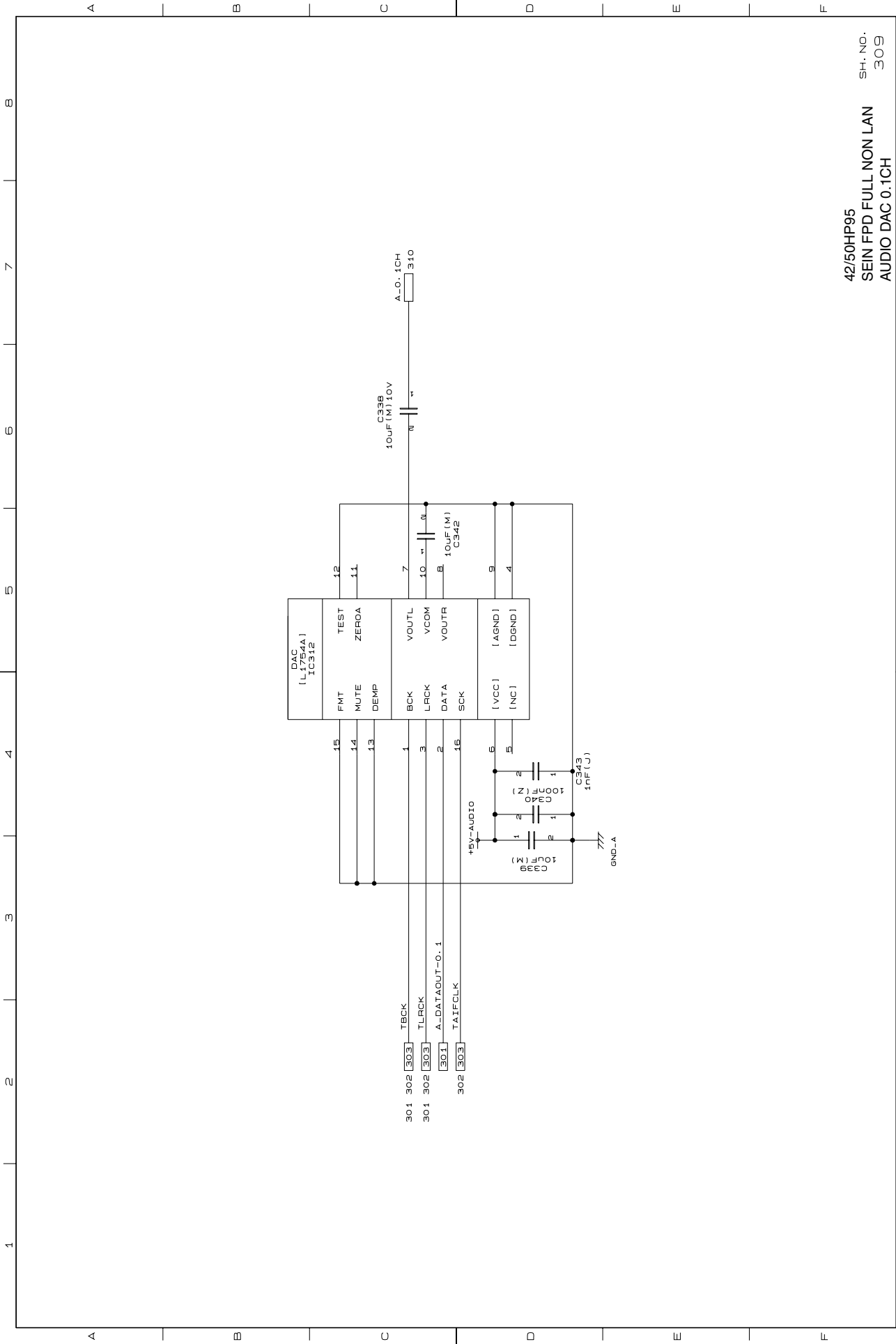
SH. NO.
304

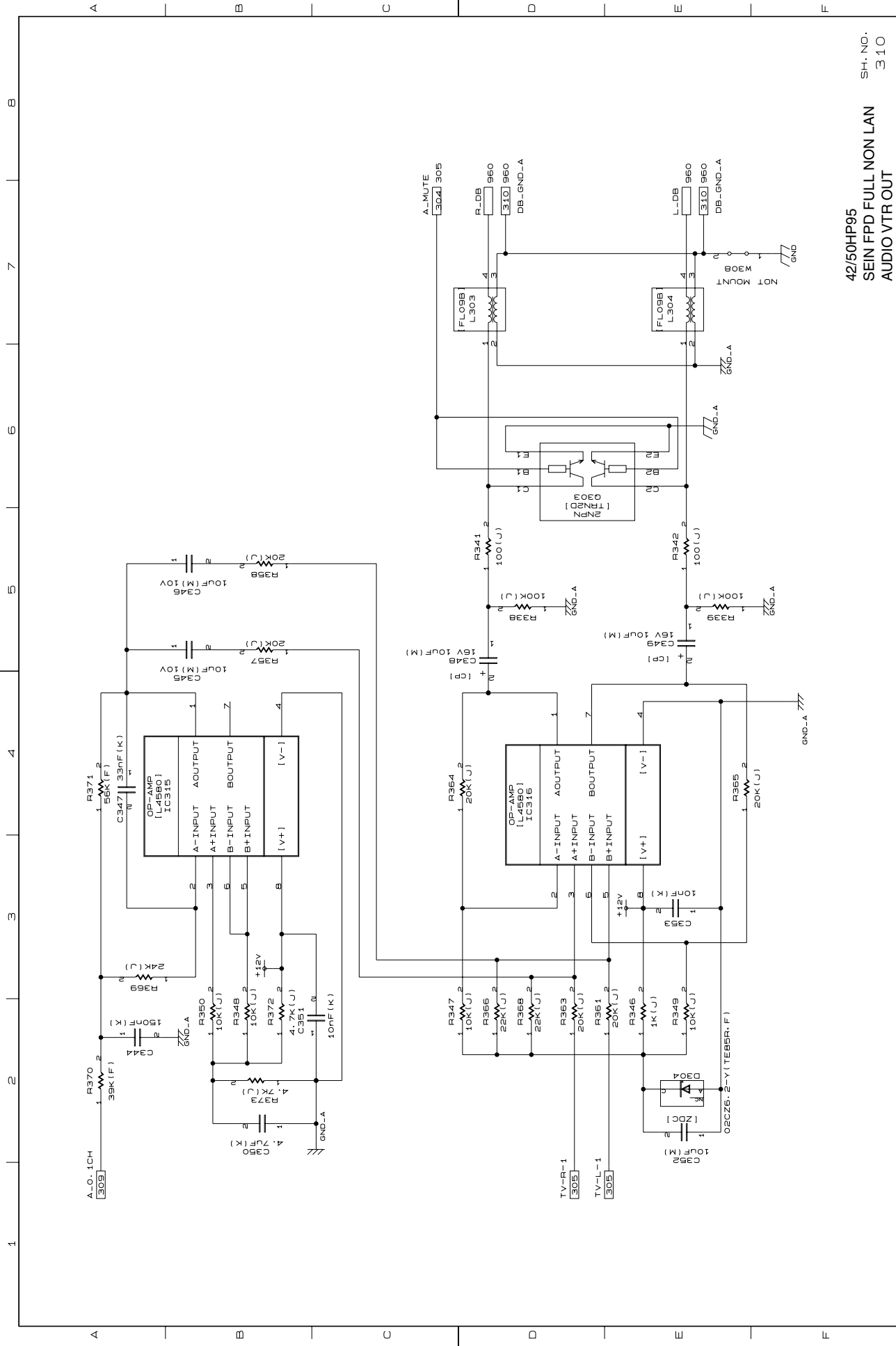
(100/128)







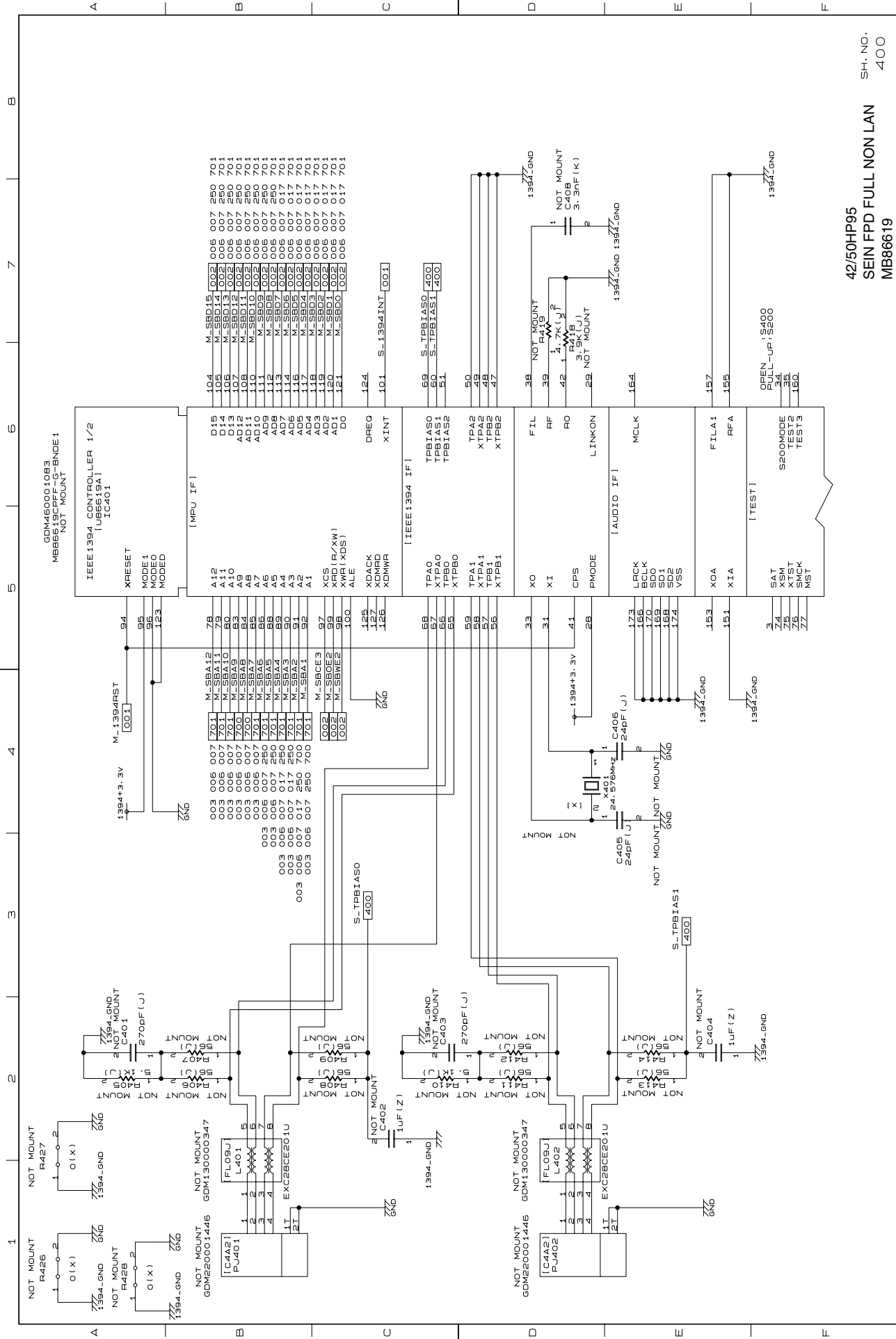




42/50HP95
SEIN FPD FULL NON LAN
AUDIO VTR OUT

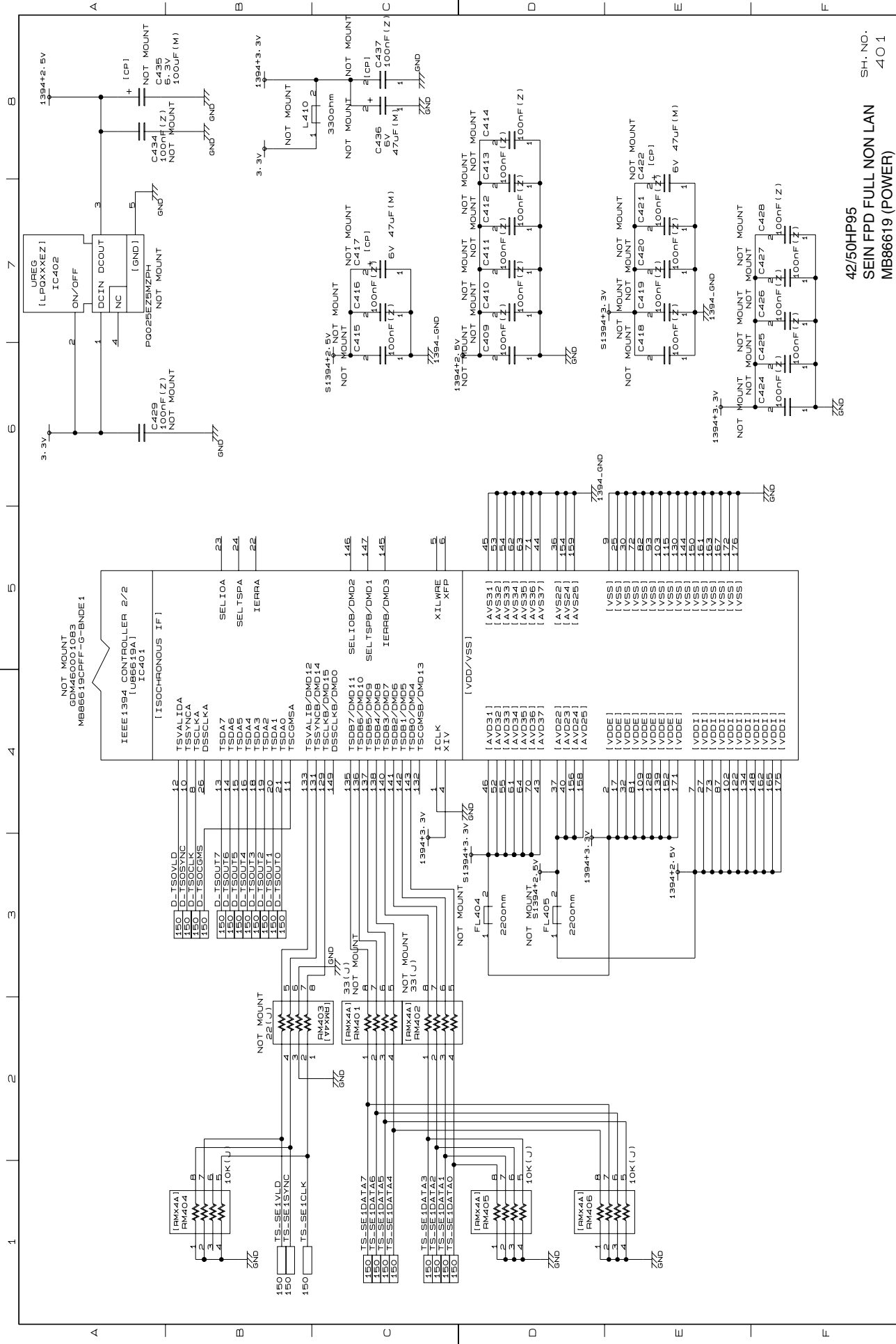
SH. NO.
310

(106/128)



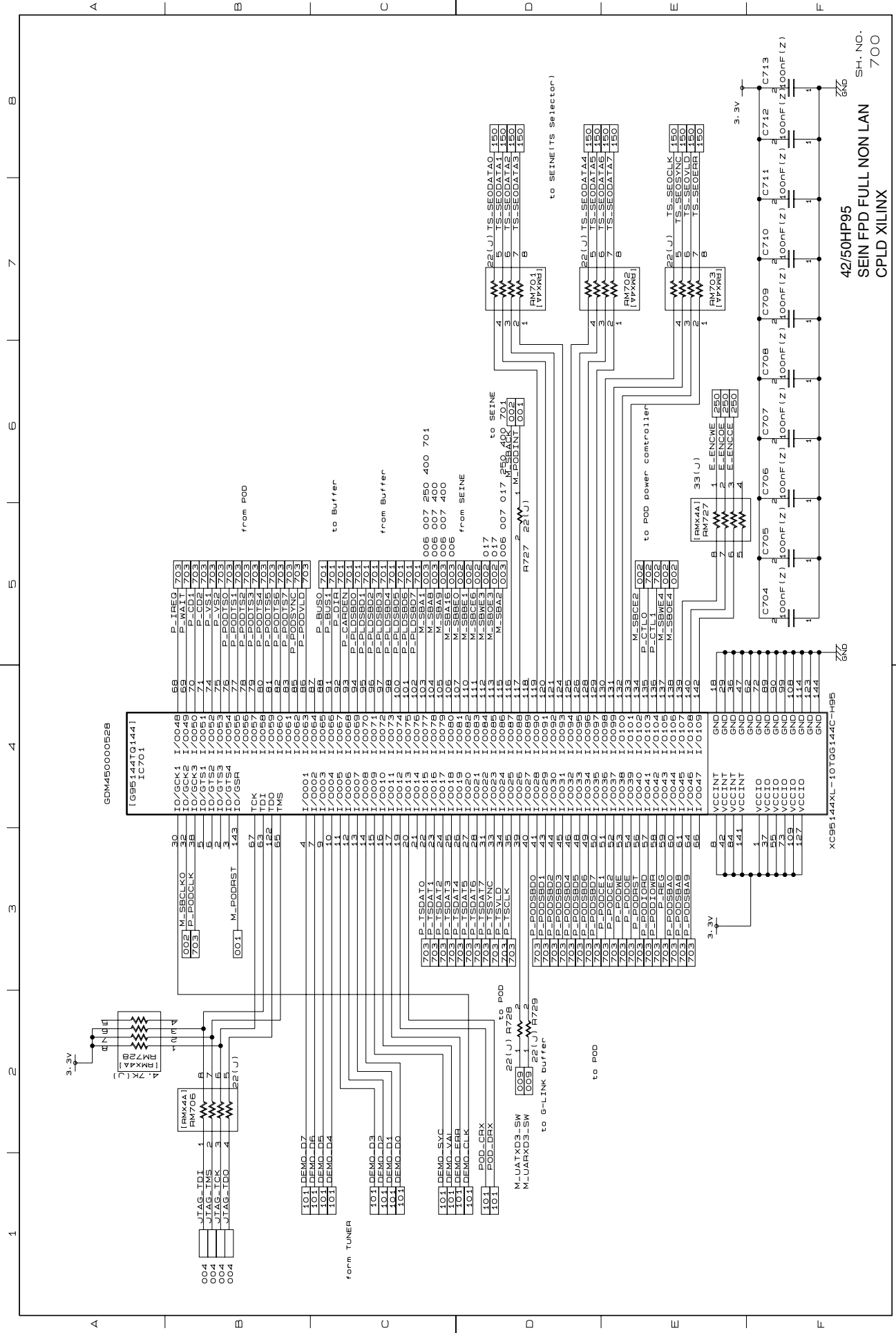
42/50HP95
SEIN FPD FULL NON LAN
MB86619

SH. NO.
400



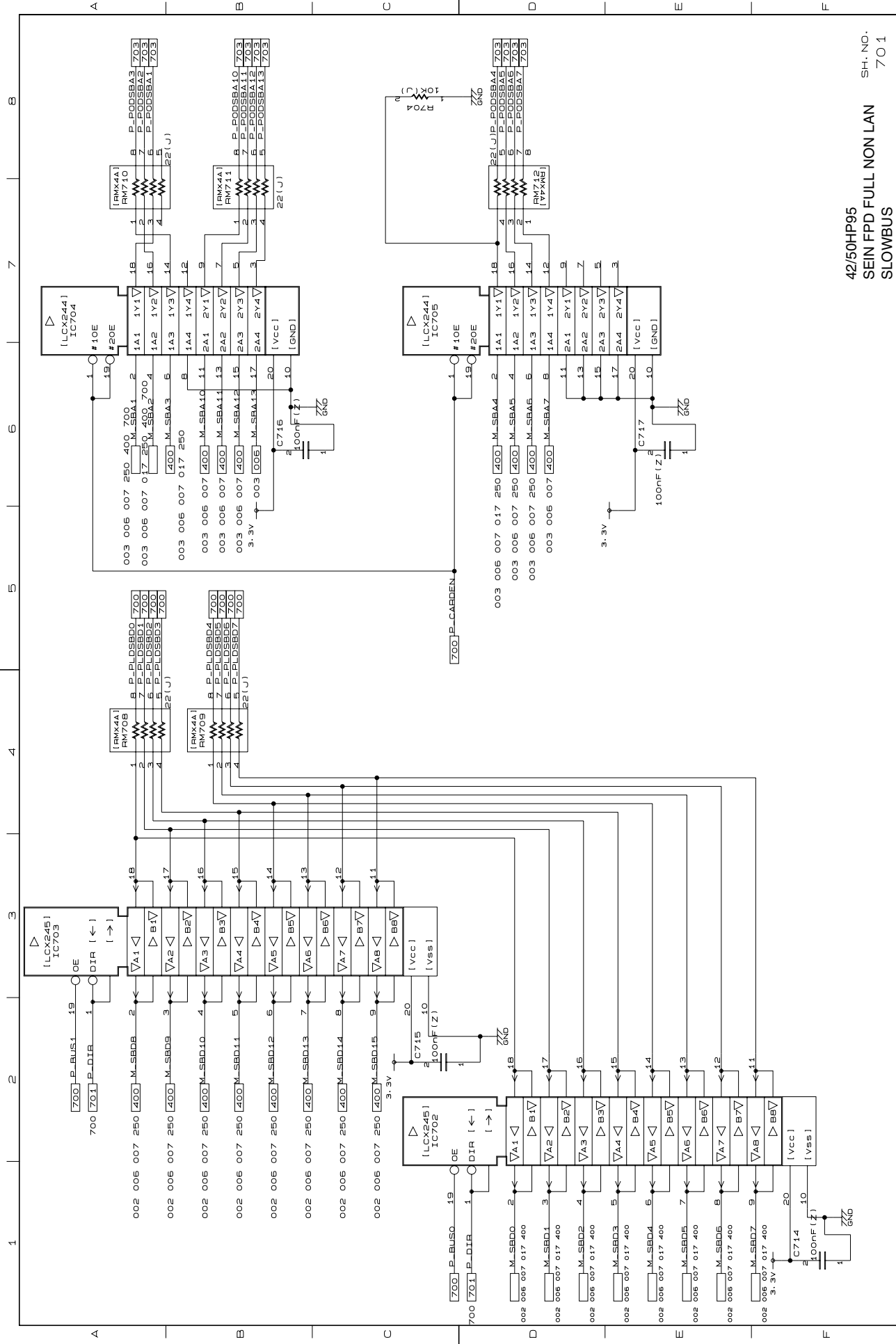
42/50HP95
SEIN FPD FULL NON LAN
MB86619 (POWER)

(108/128)



42/50HP95
SEIN FPD FULL NON LAN
CPLD XILINX

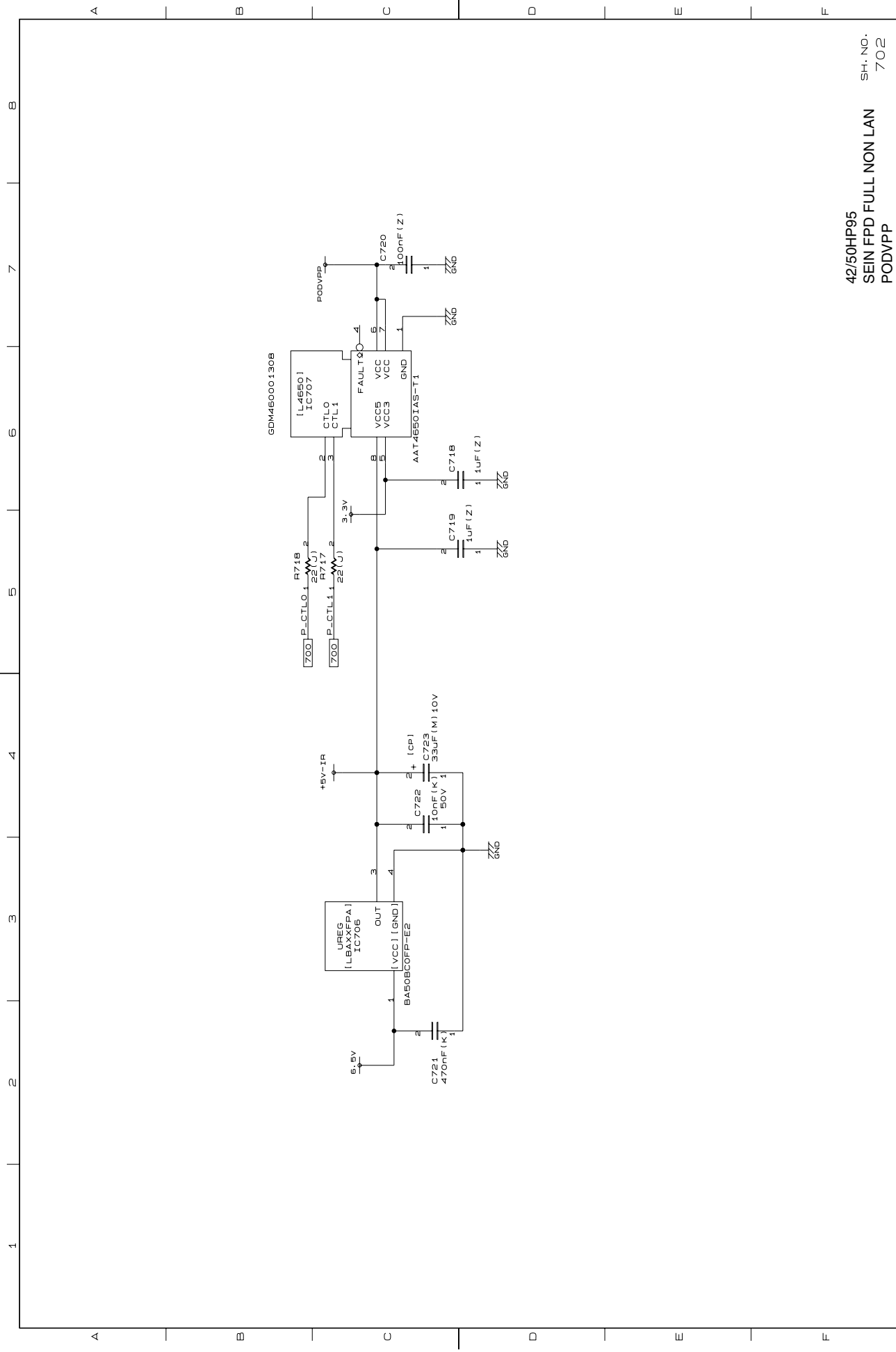
(109/128)

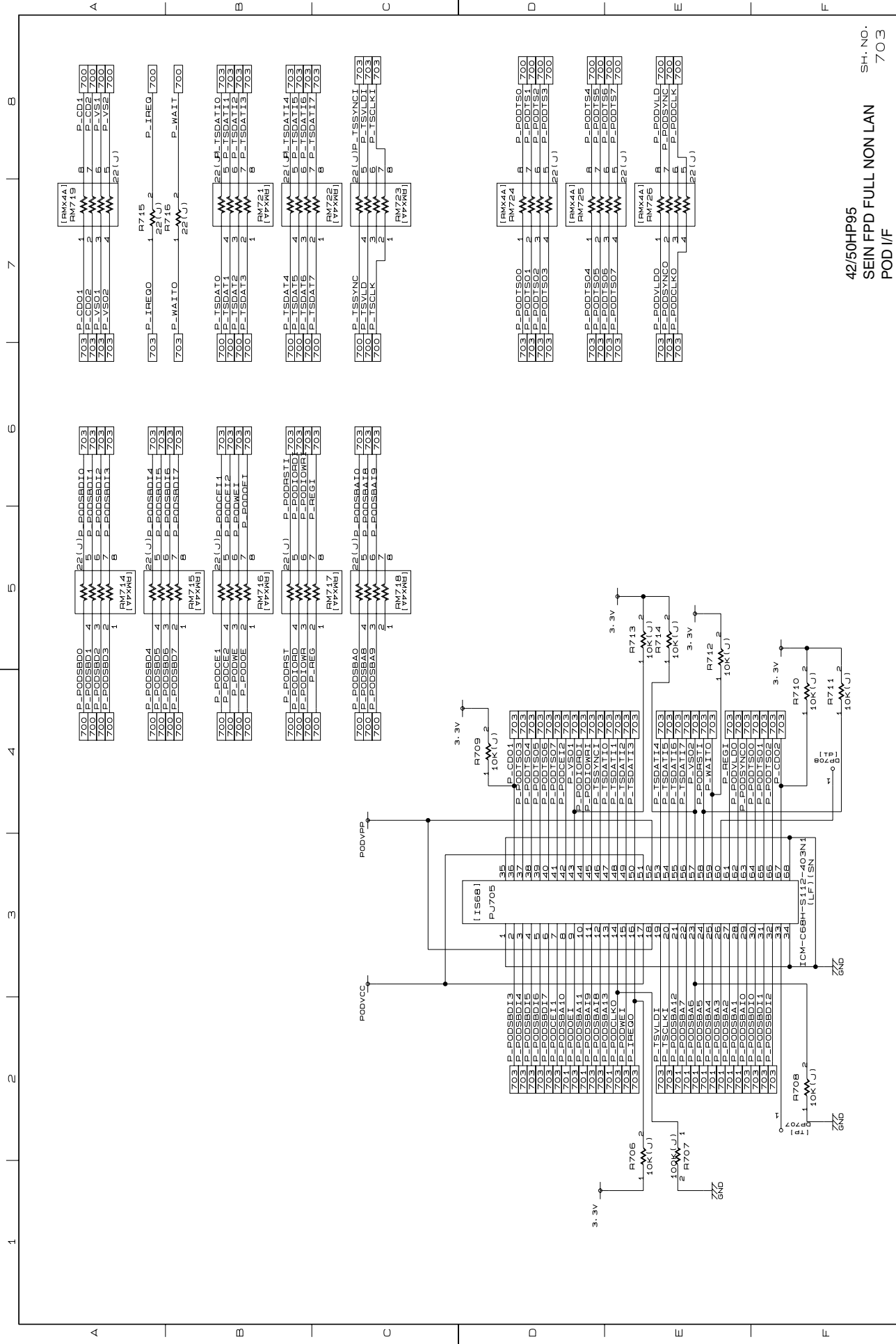


42/50HP95
SEIN FPD FULL NON LAN
SLOWBUS

SH. NO.
701

(110/128)

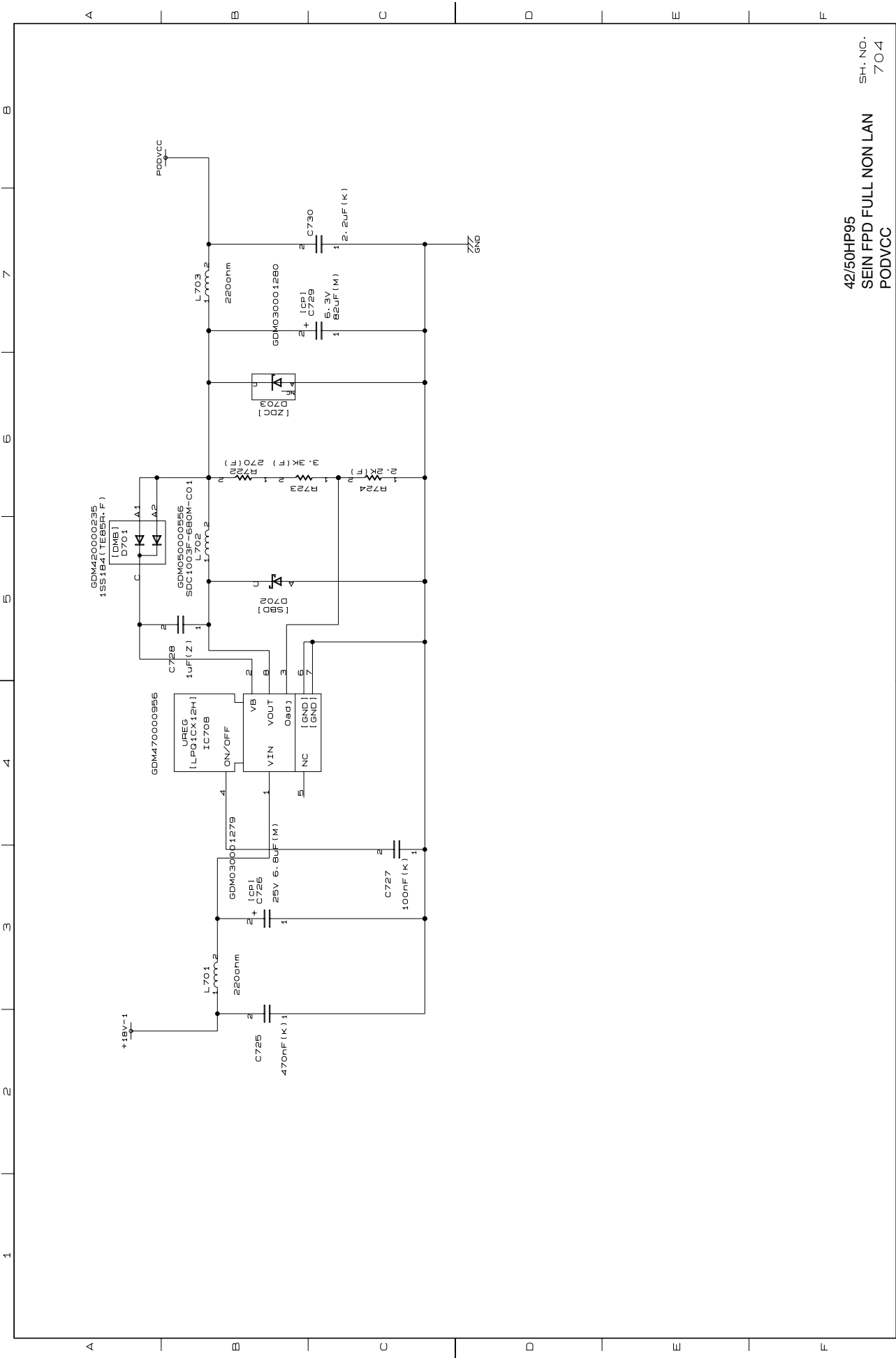




42/50HP95
SEIN FPD F
POD I/F

703
S.I. NO.

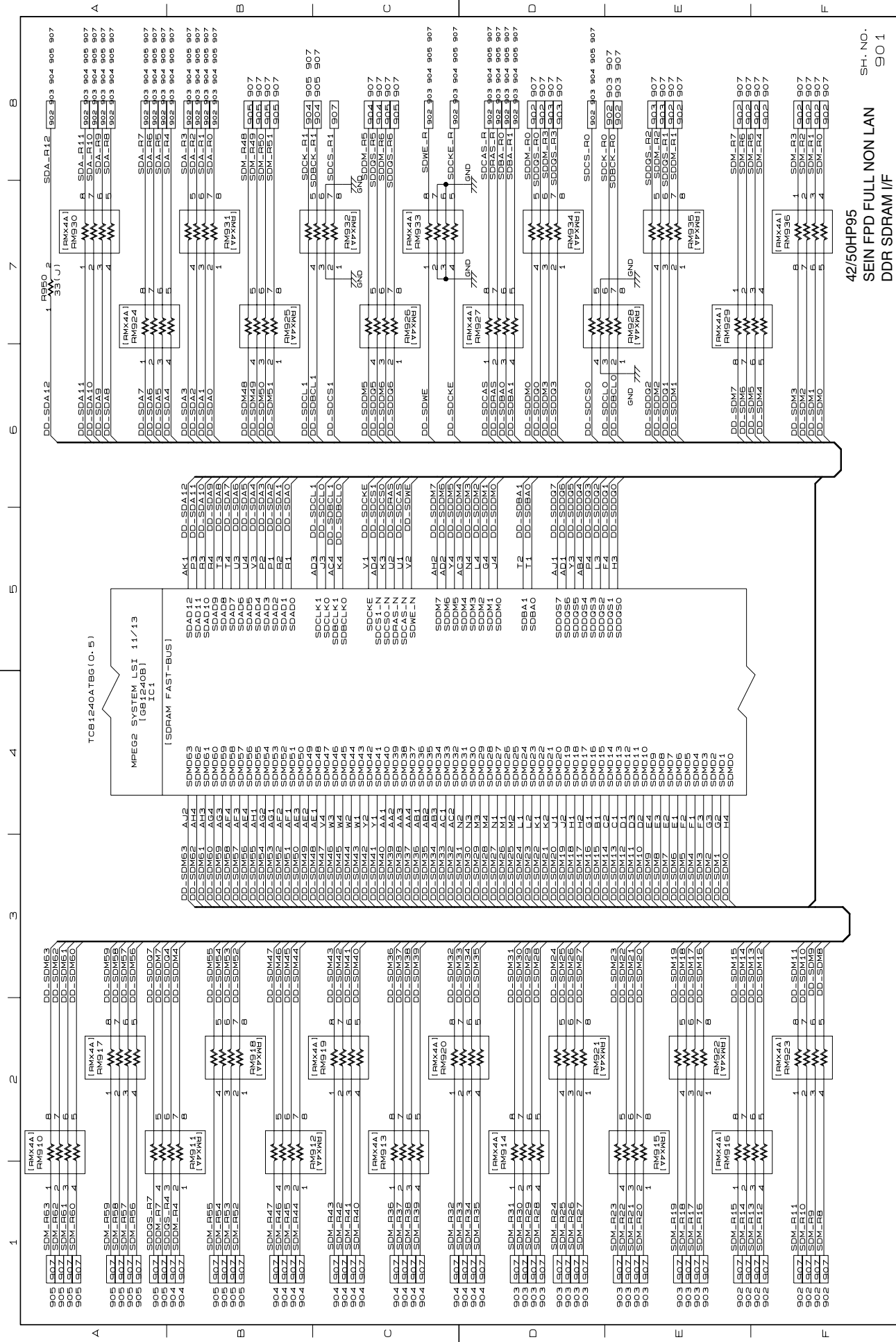
(112/128)



42/50HP95
SEIN FPD FULL NON LAN
PODVCC

SH. NO.
704

(113/128)



42/50HP95

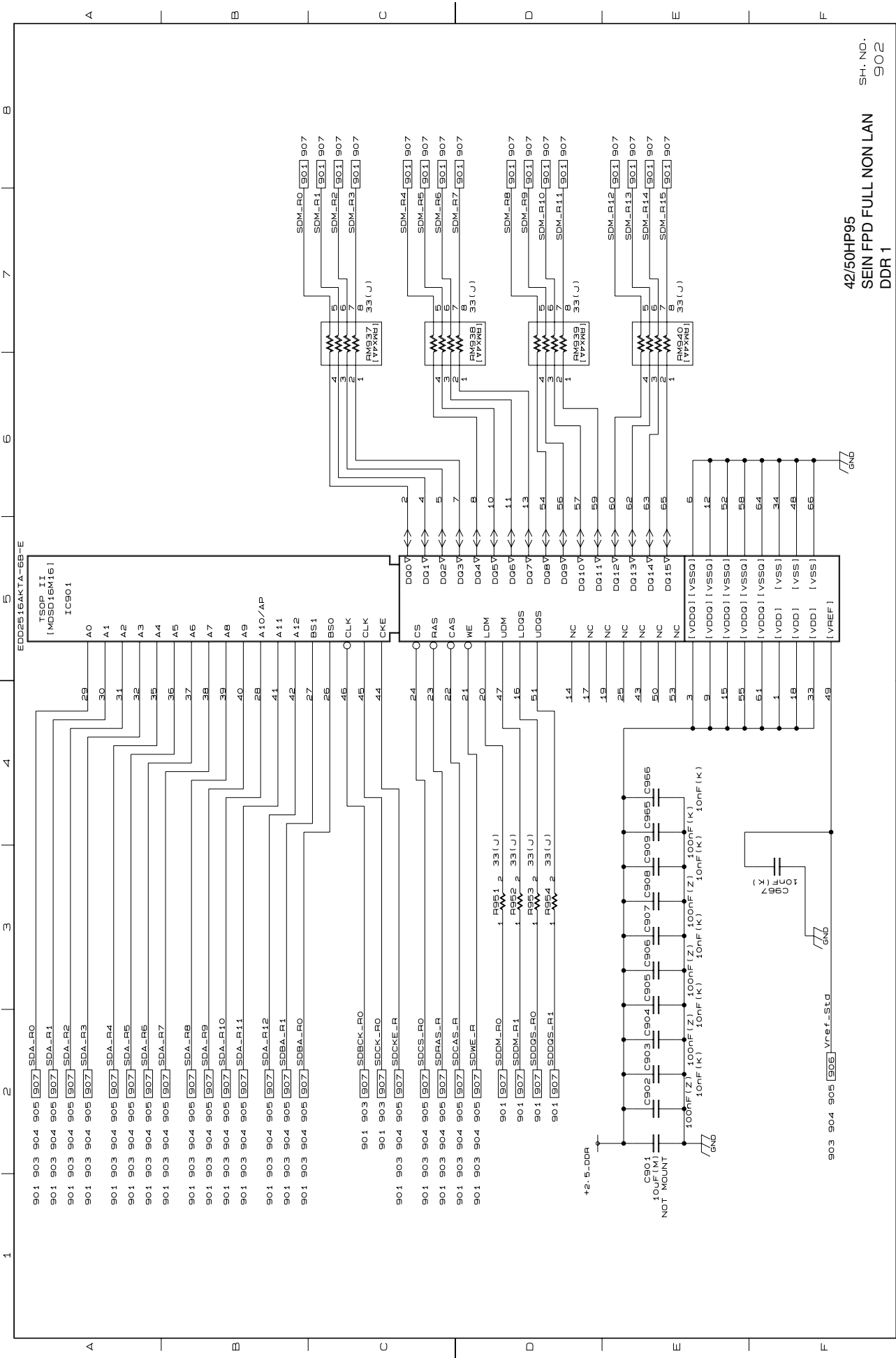
SEIN FPD FULL NON LAN

DDR SDRAM I/F

ONIS

1901

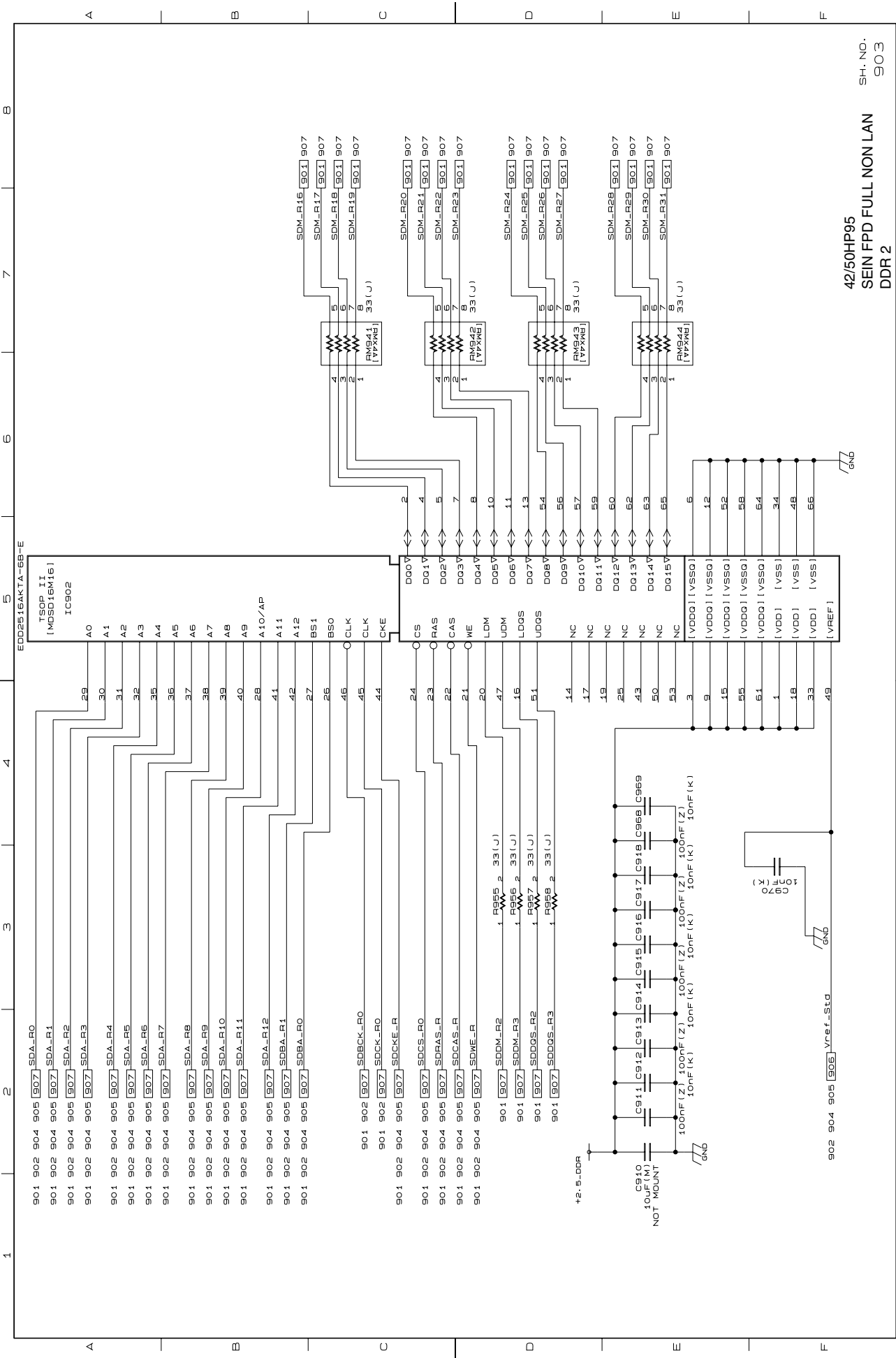
(114/128)



42/50HP95
SEIN FPD FULL NON LAN
DDR 1

SH. NO.
902

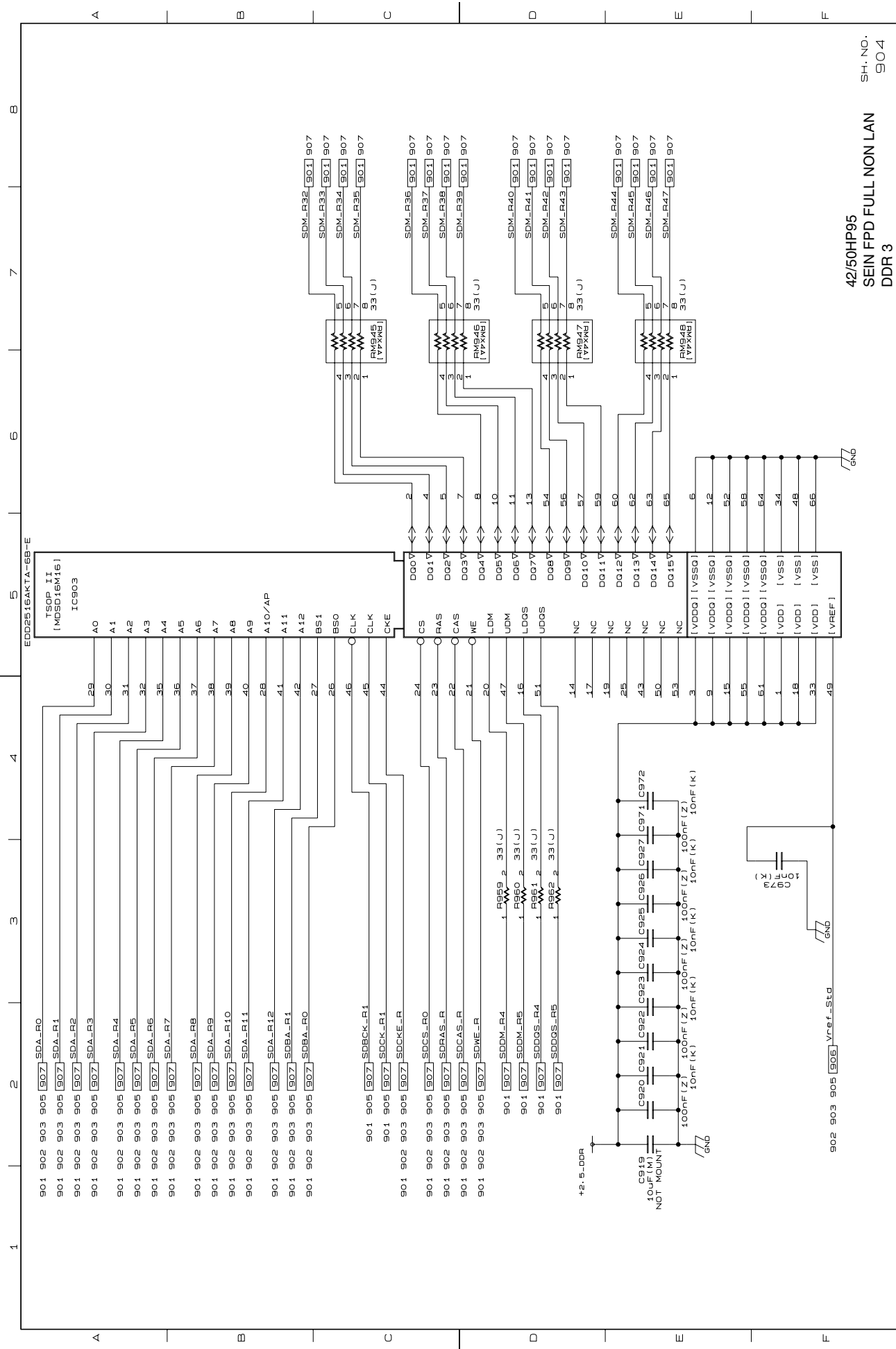
(115/128)

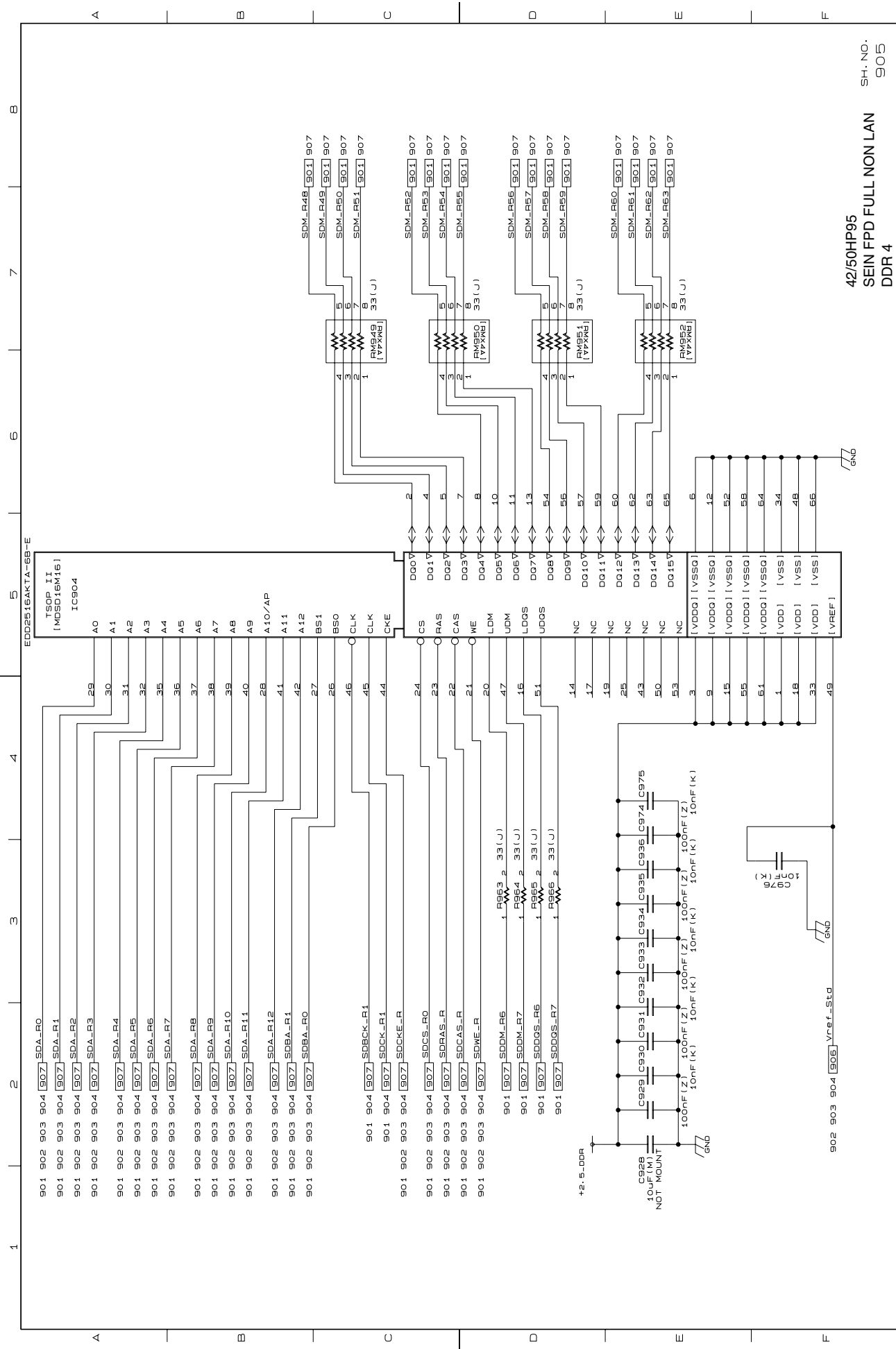


42/50HP95
SEIN FPD FULL NON LAN
DDR 2

SH. NO.
903

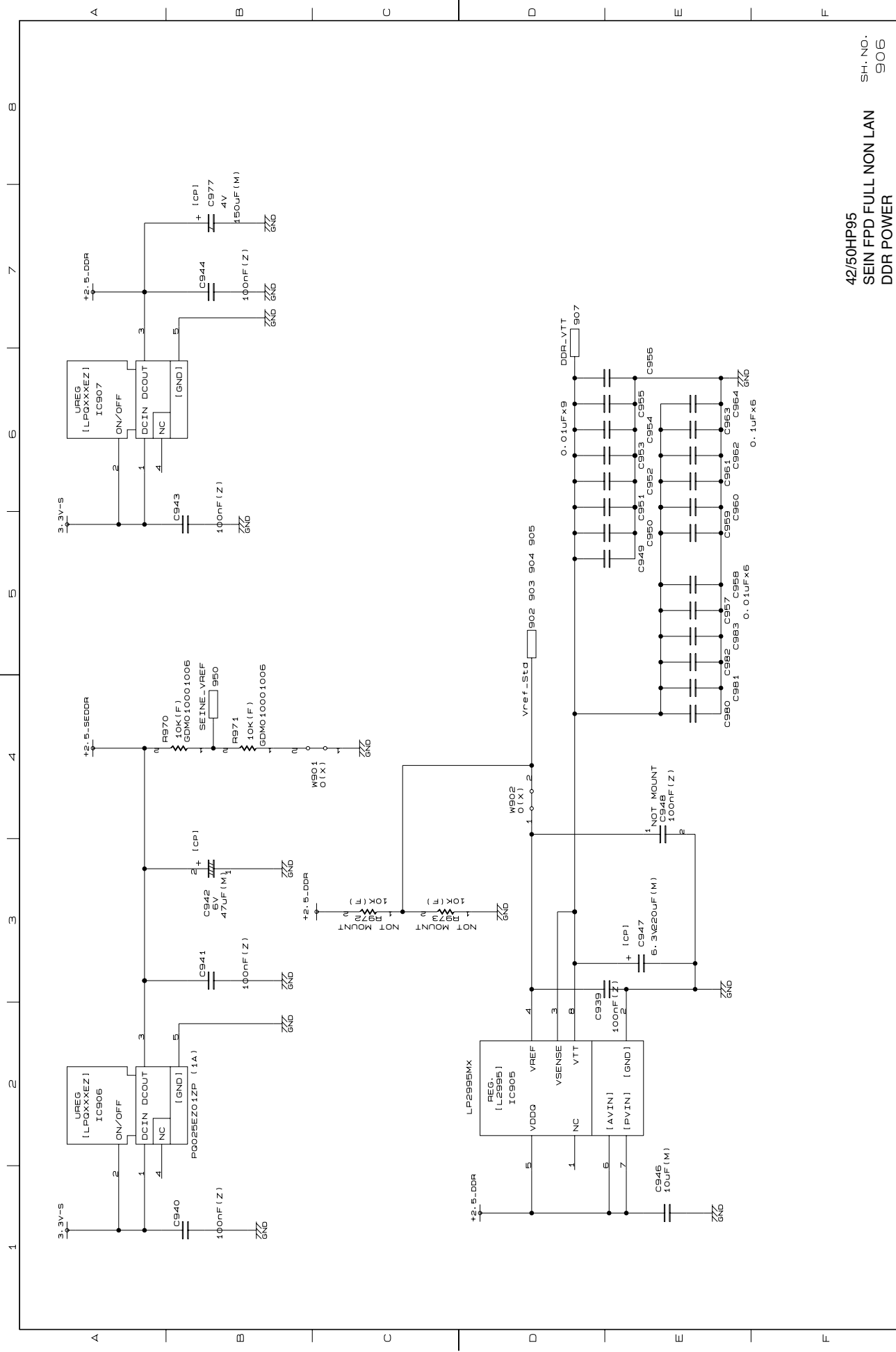
(116/128)

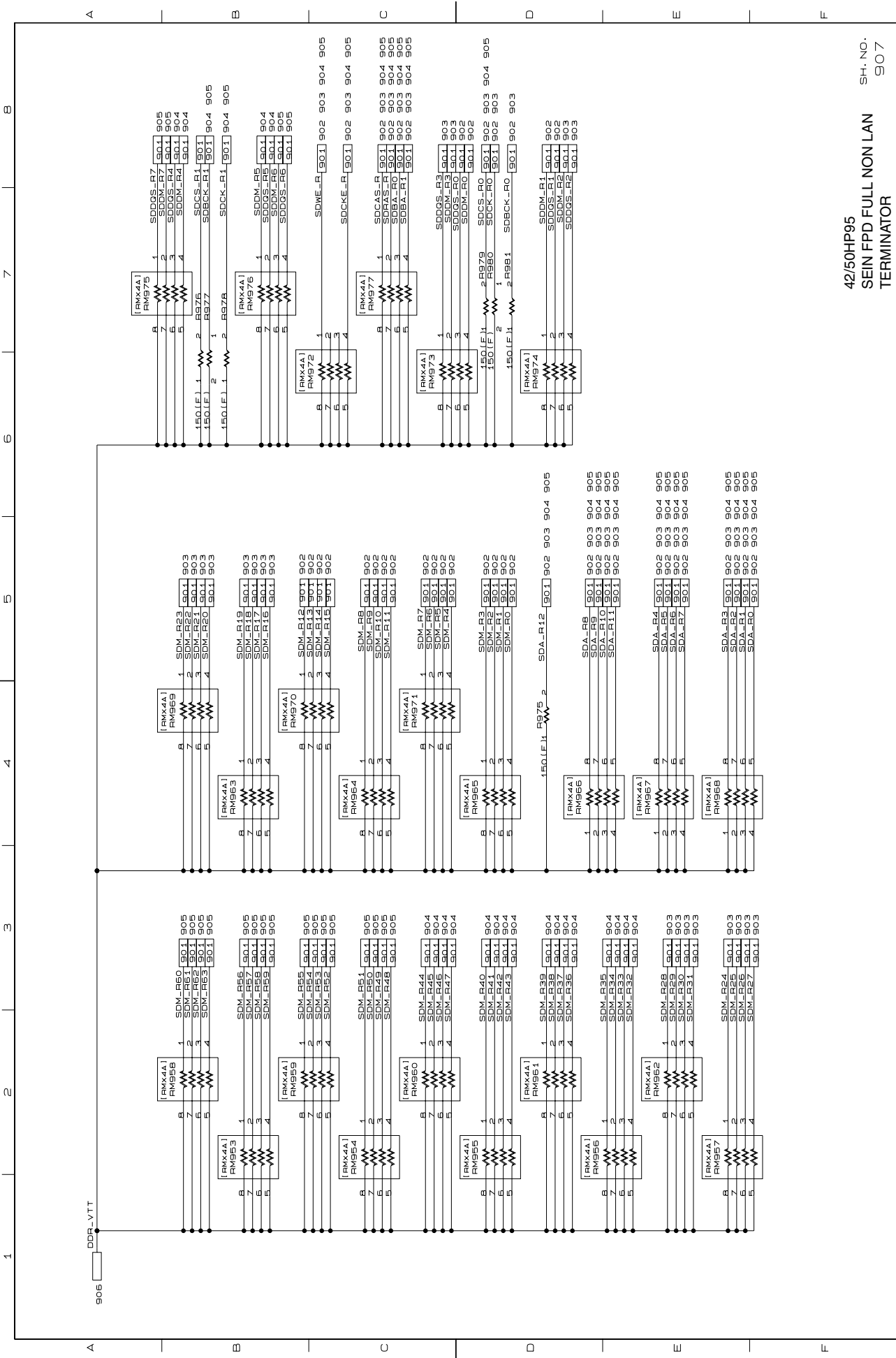




42/50HP95
SEIN FPD FULL NON LAN
DDR 4

(118/128)

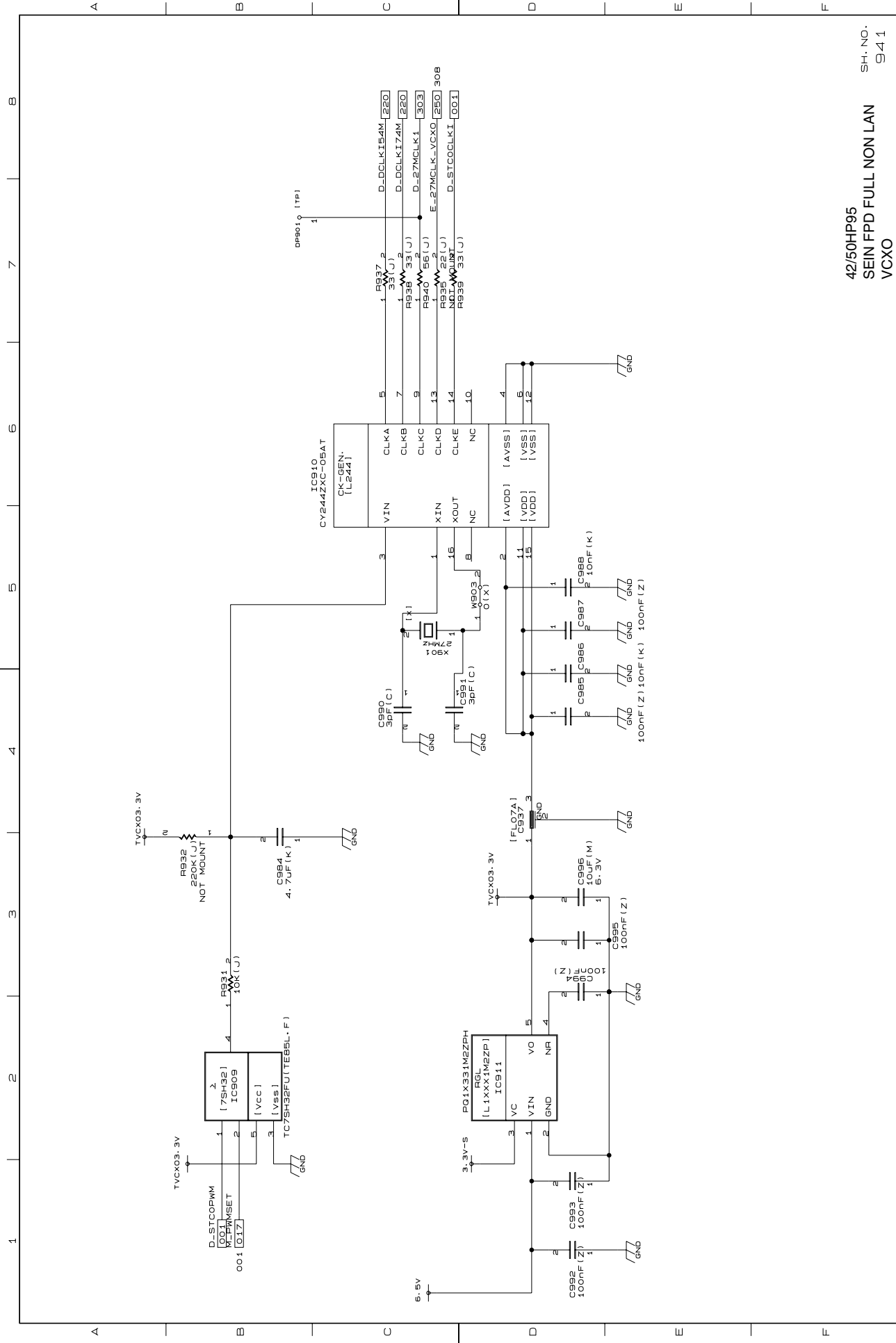




42/50HP95
SEIN FPD FULL NON LAN
TERMINATOR

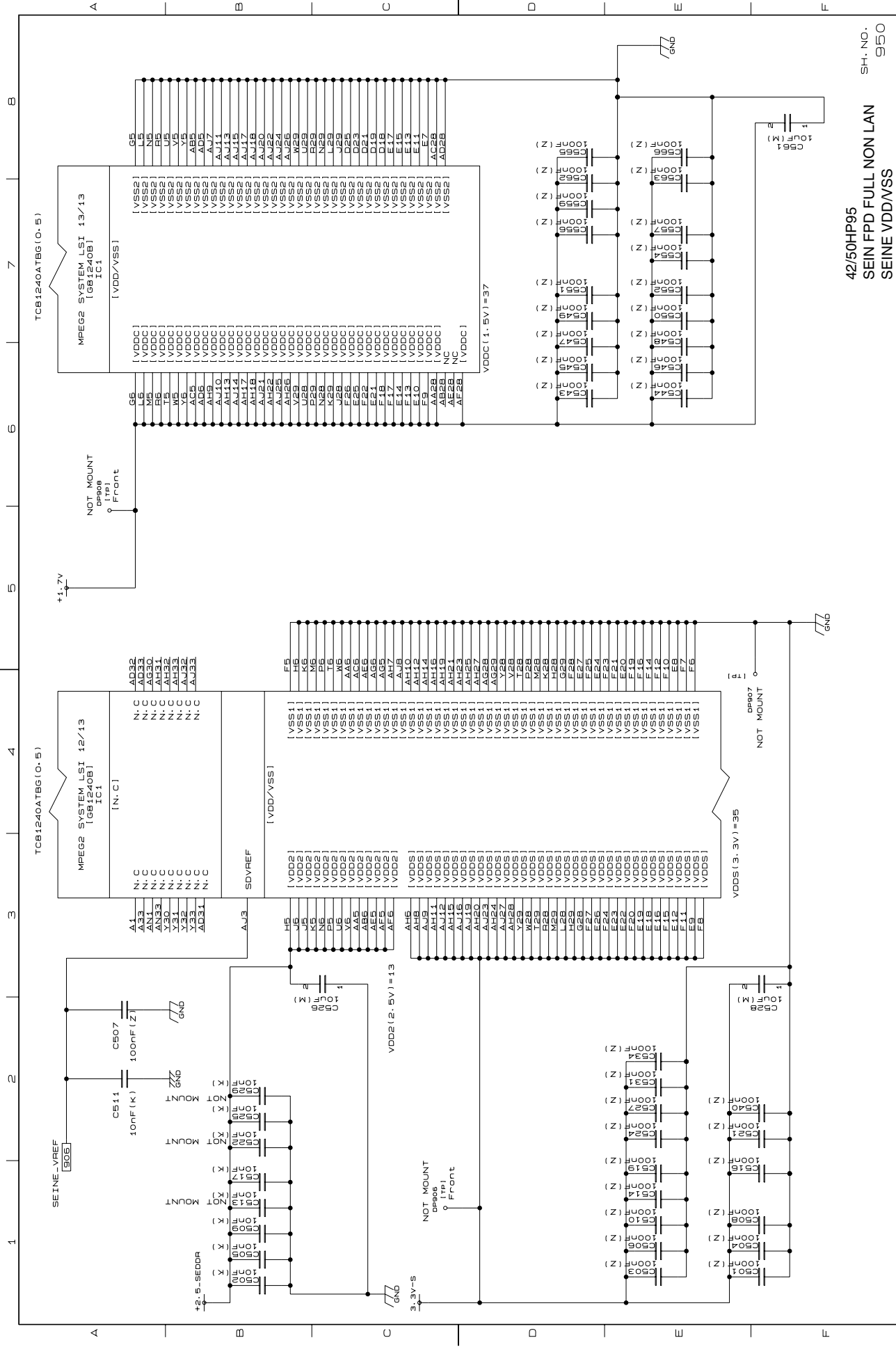
SH. NO.
907

(120/128)



42/50HP95
SEIN FPD FULL NON LAN
VCXO

(121/128)



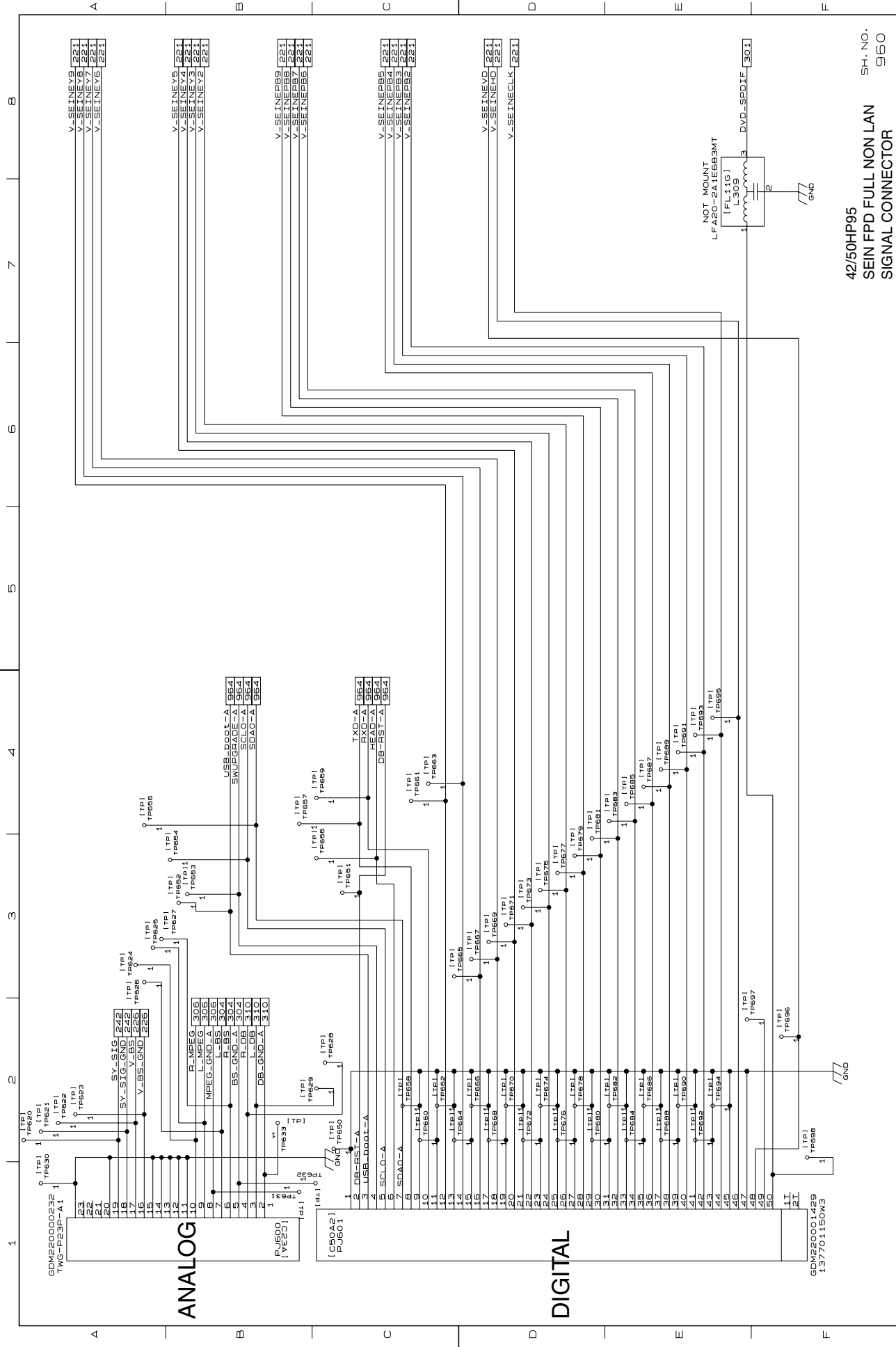
42/50HP95

SEINE FPD FULL NON LAN
SEINE VDD/VSS

ON IS

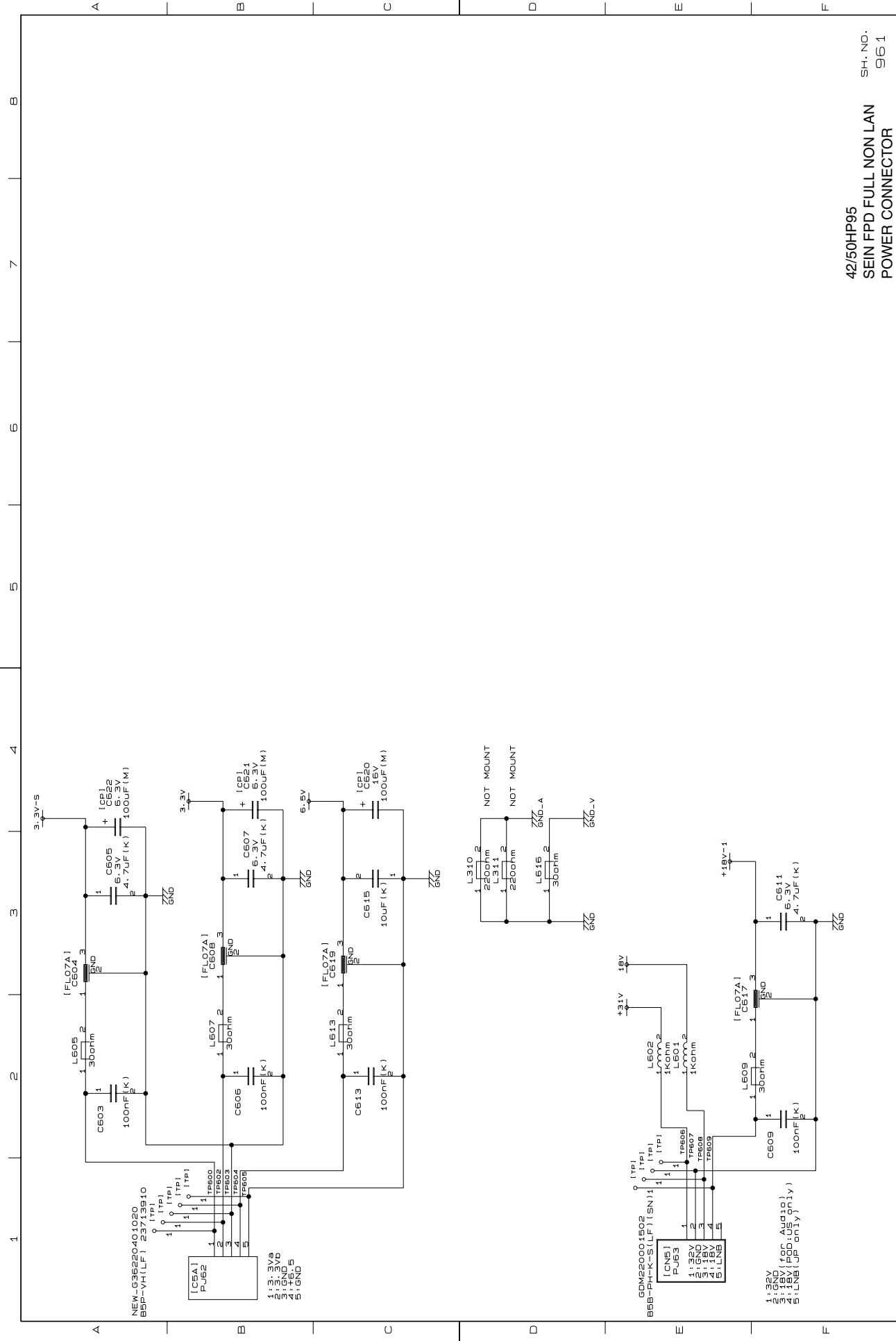
0
1
2

(122/128)



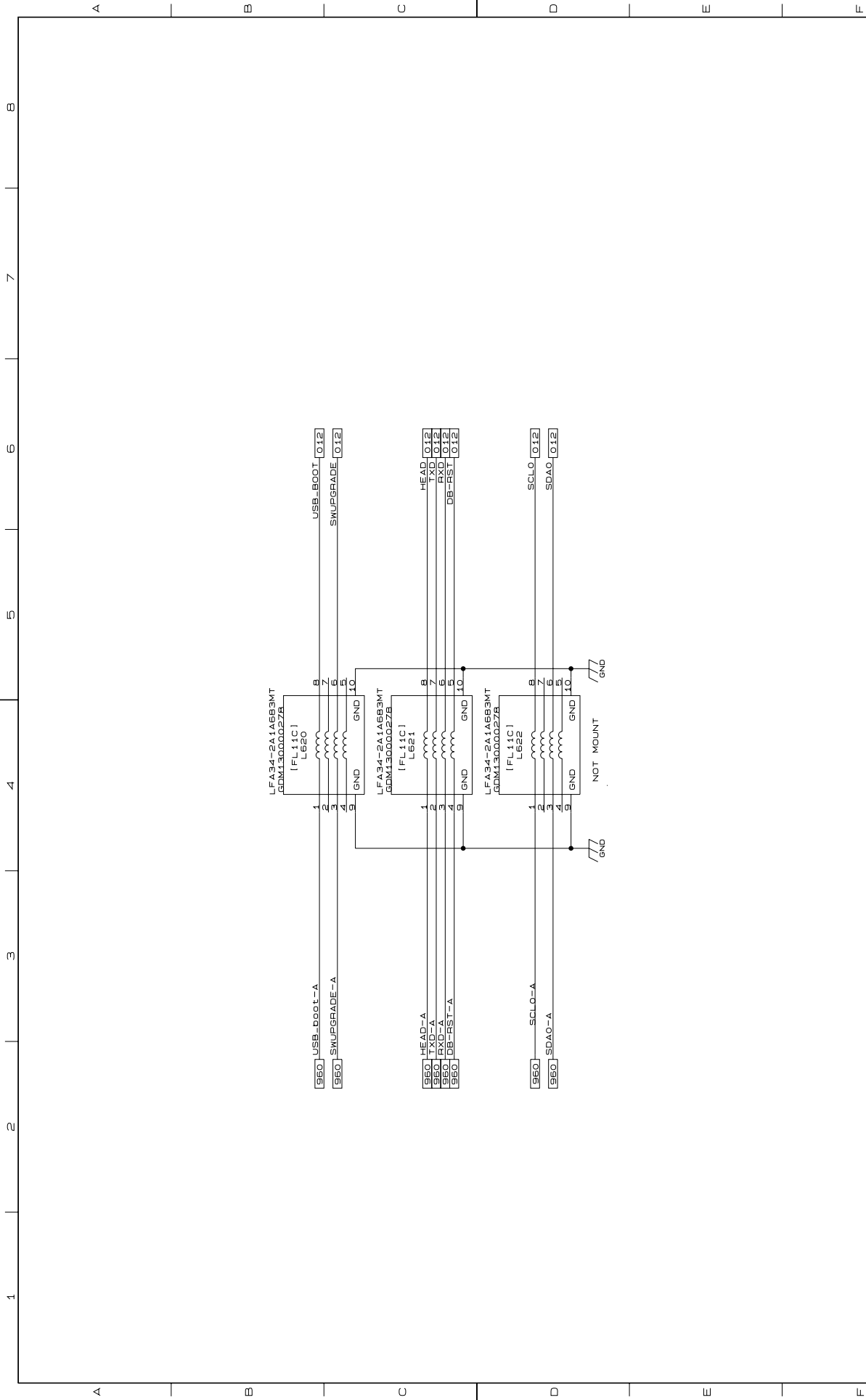
42/50HP95
SEIN FPD FULL NON LAN
SIGNAL CONNECTOR

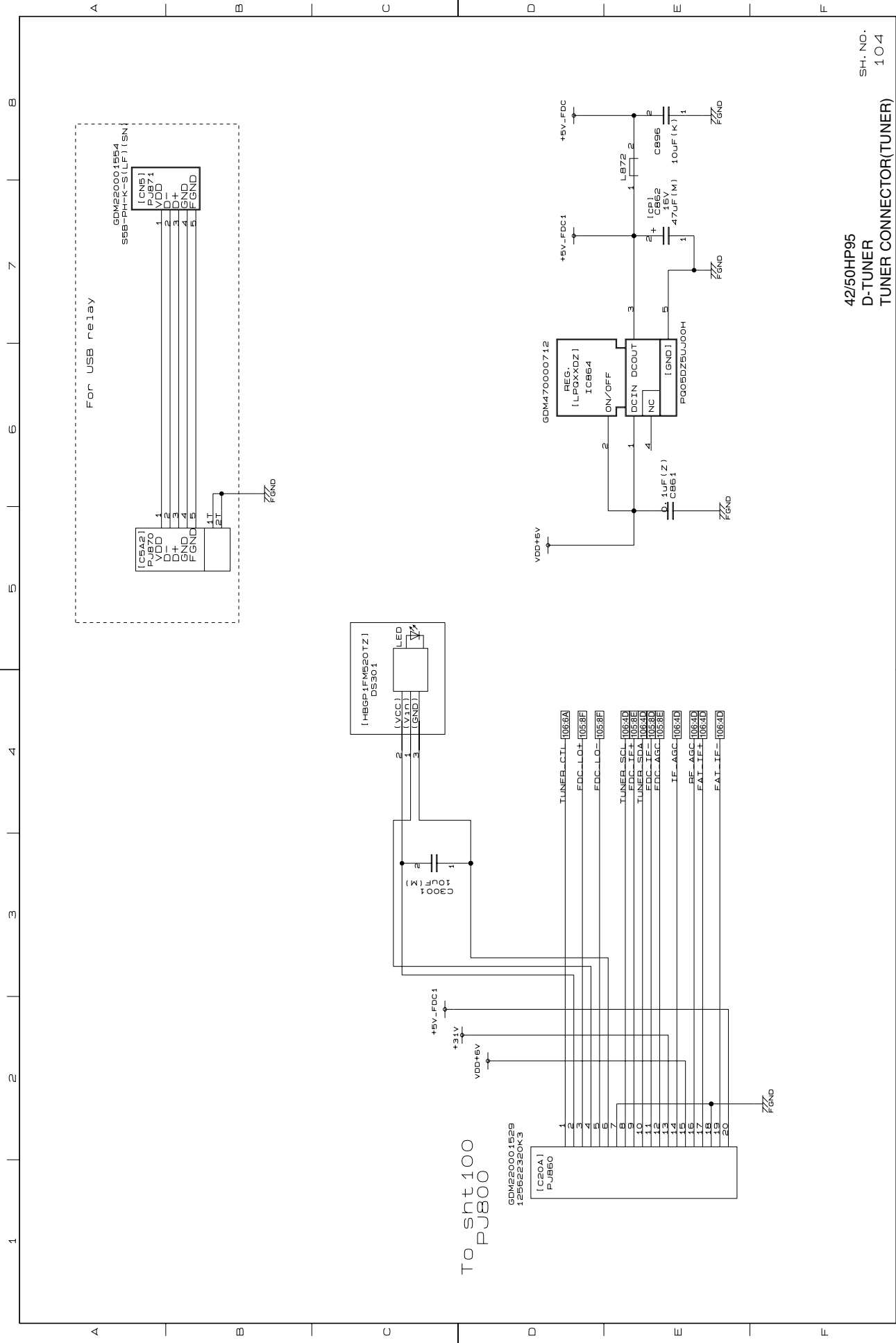
(123/128)

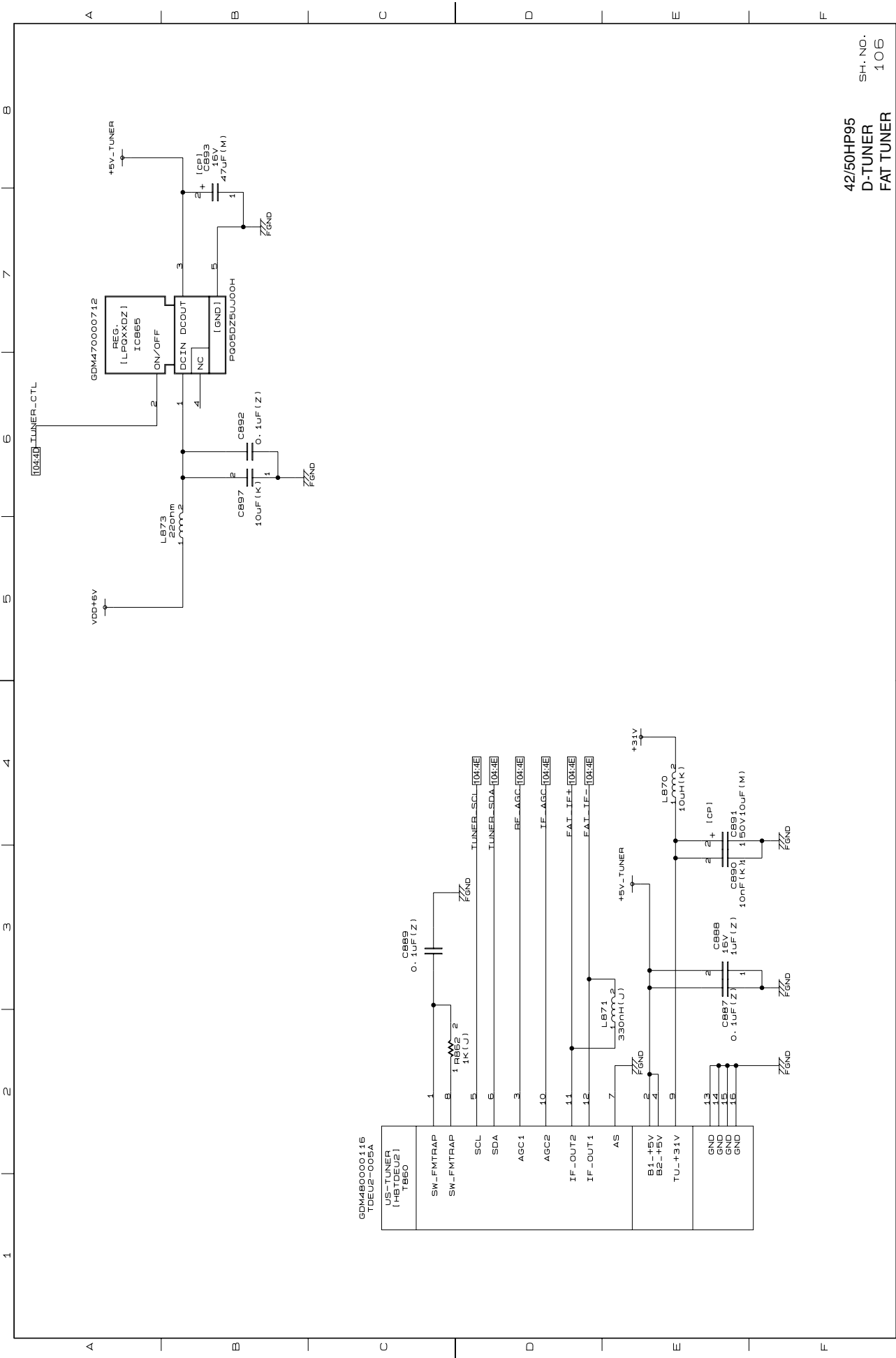


42/50HP95
SEIN FPD FULL NON LAN
POWER CONNECTOR

(124/128)







42/50HP95
D-TUNER
FAT TUNER

SH. NO.
106

(128/128)

TOSHIBA CORPORATION

1-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105-8001, JAPAN